

PRECIPITATION IN TENNESSEE RIVER BASIN

ANNUAL 1969

(All Figures are in		
AVERAGE PRECIPITATION	N	
Above Chattanooga	(51.11)	
Below Chattanooga	(52.10)	
Entire Basin	(51.58)	51.87
MOST RAIN		
Coweeta No. 31, N. C.	(92.38)	110.27
LEAST RAIN		
Tazewell, Va.	(41.90)	33.64
HIGHEST 24-HOUR RAIN		
Isoline, Tenn.		7.05
NATURAL STREAMFLOW		
Above Knoxville	(19.38)	16.00
Above Chattanooga	(23.50)	18.95

JUN 3 0 1970

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

DIVISION OF WATER CONTROL PLANNING
HYDRAULIC DATA BRANCH

PRECIPITATION IN TENNESSEE RIVER BASIN

ANNUAL 1969

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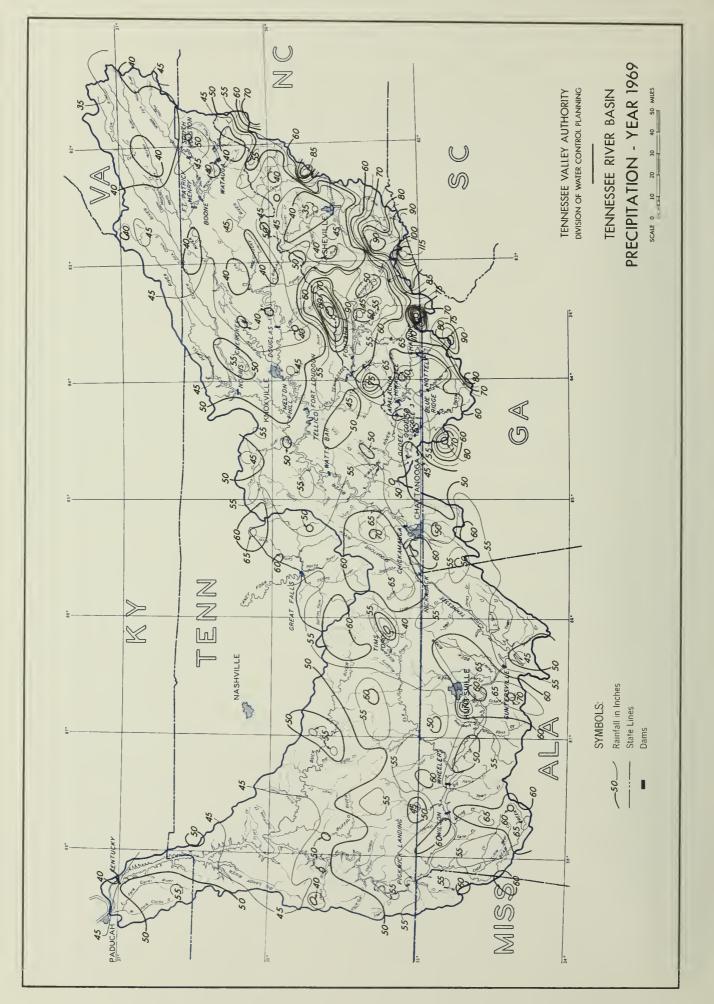
TENNESSEE VALLEY AUTHORITY

DIVISION OF WATER CONTROL PLANNING
HYDRAULIC DATA BRANCH

ANNUAL 1969

PRECIPITATION IN TENNESSEE RIVER BASIN

REPORT NO. 0-243



PRECIPITATION IN TENNESSEE RIVER BASIN

ANNUAL 1969

Precipitation

The year 1969 ranks as the thirty-eighth wettest in 80 years of record. Precipitation over the Basin averaged 51.87 inches, 0.29 inch more than the 75-year (1890-1964) mean. Average annual precipitation has ranged from 37.86 inches in 1941 to 64.62 inches in 1957. Average precipitation above and below Chattanooga were 0.60 inch less and 1.32 inches more than the long-term mean, respectively. These amounts are listed in the summary on the cover of this report. The frontispiece map shows the 1969 annual distribution of precipitation over the Basin.

The index map following page 15 shows the station locations, and Tables 1 through 10 on pages 21 to 59 show precipitation for stations listed in upstream order.

Monthly precipitation in the Basin was below the 75-year mean during six months of the year with February, April, June, August, September, and December exceeding the mean. The driest month was October with 2.55 inches and the wettest was December with 7.71 inches. The table on page 6 shows monthly and annual precipitation data with means and deviations for the Basin.

The U. S. Forest Service station at Coweeta No. 31, North Carolina, located in the upper Little Tennessee River watershed in the mountainous southeastern section of the Basin, received the maximum annual precipitation during 1969 amounting to 110.27 inches, 17.89 inches above the 35-year (1935-1969) mean; this was its fourth consecutive year to receive the maximum annual. This station also recorded the maximum Basin amount for January. The maximum monthly precipitation during the year was 16.94 inches in August at Pink Beds, North Carolina, followed by Red Bay, Alabama, with 12.76 inches in December, and Haw Knob, North Carolina, with 12.58 inches in June. Lake Toxaway, North Carolina, just outside the Basin, had an annual amount of 115.10 inches for 1969.

The minimum annual precipitation for 1969 in the Basin was 33.64 inches at Tazewell, Virginia, located in the upper Clinch River basin about 50 miles northeast of South Holston Dam. This amount is 8.26 inches below the 35-year (1935-1969) mean. The minimum monthly station precipitation was 0.14 inch in September at Springville, Tennessee, on the Tennessee River about 50 miles south of Kentucky Dam. Other monthly low totals were 0.31 inch at Hodges, Alabama, 0.44 inch at Campbellsville, Tennessee, 0.70 inch at Cleveland Substation, Tennessee, and 0.72 inch at Well Spring, Tennessee.

The ten highest and lowest amounts for 1969 in the Tennessee River Basin are listed in the following table:

1969 ANNUAL PRECIPITATION

AT 10 WETTEST AND 10 DRIEST STATIONS

IN THE TENNESSEE RIVER BASIN

Highest Amou	nts	Lowest Amounts			
Station	1969 Annual Precipitation inches	Station	1969 Annual Precipitation inches		
Coweeta No. 31, N.C.	110.27	Tazewell, Va.	33.64		
Sassafras Mountain, S.C.	98.63	Weaverville, N.C.	34.97		
Highlands, N.C.	95.06	Barnardsville, N.C.	35.58		
Gloucester Gap, N.C.	94.13	Saltville, Va. (TVA)	35.61		
Haywood Gap, N.C.	93.13	Parker Branch, N.C.	35.80		
Newfound Gap, N.C.	93.04	Roan Mountain, Tenn.	36.32		
Cedar Mountain, N.C.	92.26	Jewell Ridge, Va.	36.67		
Tray Mountain, Ga.	91.20	Odomville, Tenn.	36.97		
Quebec, N.C.	88.13	Honaker, Va.	37.01		
Mt. Mitchell, N.C.	87.23	Ivy, N.C.	37.07		

Precipitation statistics for selected stations throughout the Basin are shown on pages 6 to 9.

The greatest station precipitation in a 24-hour period during the year was 7.05 inches on June 22-23 at Isoline, Tennessee.

Among the watershed subdivisions the maximum annual average for 1969 was 85.7 inches over the French Broad River watershed above Blantyre, North Carolina, 12.1 inches more than the 35-year mean of 73.6 inches. The minimum annual average was 39.8 inches, 2.4 inches less than the 35-year mean of 42.2 inches, over the North Fork of Holston River watershed above Gate City, Virginia. The 1969 precipitation totals for the individual watershed subdivisions are shown on the map on page 11 and for selected watersheds in the table on page 10.

Precipitation and runoff for the year on 14 selected watersheds are shown on page 14. Other tabulations and charts on pages 12 and 13 show selected data on precipitation and runoff.

Snow

The average snowfall over the Basin during the year was 19.4 inches, with 17 percent occurring in January, 30 percent in February, 20 percent in March, 5 percent in November, and 28 percent in December. East of Chattanooga, the average snowfall was 30.0 inches; west of Chattanooga, it was 7.1 inches. The maximum for the Basin, 98.8 inches, occurred at McKinney Gap, North Carolina, in the Nolichucky River watershed. Banner Elk, North Carolina, in the upper Holston River watershed had 78.8 inches. In the western section of the Basin, the maximum snowfall was 27.8 inches at Sewanee, Tennessee, located on the Cumberland Plateau about 22 miles northwest of Nickajack Dam. In the Caney Fork area above Great Falls Dam, the average snowfall was 15.9 inches, with a maximum of 48.6 inches at Monterey, Tennessee.

Streamflow

Streamflow in the Basin above Chattanooga was below normal for ten months in 1969, with February and December being above normal.

Flows from the watersheds above Chattanooga and Knoxville are shown on the cover and in the following table:

ANNUAL NATURAL STREAMFLOW IN INCHES-1969

	Water Year		Calenda	r Year_
	1969	Mean	1969	Mean
Tennessee River at				
Knoxville	15.04	19.38	16.00	19.38
Chattanooga	17.38	23.51	18.95	23.50

Other tabulations and charts on pages 12, 13, and 14 show selected runoff data.

Evaporation

Data observed at the five TVA evaporation stations are shown in the table on page 15.

Drought

Drought conditions occurred in parts of the Basin in May, June, July, August, and September.

Temperatures

Air temperatures over the Basin averaged below normal during nine months of the year and averaged normal to slightly above for April, June, and July. For the year, the average was about two degrees below normal. Record-low temperatures were recorded at some stations in the Basin in January, March, April, August, October, and November. January 5 was the coldest day of the year in the Basin with low temperatures ranging from +10 to -10. November was the coldest of record at Chattanooga.

Intense Rainfall

Maximum rainfall intensities for periods of 1, 3, 6, 12, and 24 hours for the years 1936-1969 are shown in a table on page 5.

Monthly Reports

Monthly issues of the bulletin "Precipitation in Tennessee River Basin" contain tabulations of daily precipitation at stations located in or near

the Basin together with isohyetal maps of monthly precipitation, maps showing mean monthly precipitation on watershed subdivisions, descriptions of storms, tabulations of rainfall and runoff on selected watersheds, intense rainfall data, and other information.

Special Reports

Reports on special storm investigations were published in monthly issues of this publication during 1969. These reports and the date of the issue in which they appear are as follows:

Monthly Bulletin Containing Report

Windstorms of March 23-24 in East Tennessee Storm of June 23, 1969, at Red Boiling Springs, Tennessee Hurricane Camille Storm and Floods of December 28-31, 1969 March
June
August
December

ANNUAL MAXIMUM RAINFALL INTENSITIES

IN

TENNESSEE RIVER BASIN

1936-1969

Each tabular value shows maximum rainfall in inches occurring within the time period shown at head of the column. The number in parentheses is the station where this occurred.

			Inches for		
Year	1 Hour	3 Hours	6 Hours	12 Hours	24 Hours
1936	3.00 (34)	4.79 (60)	5.62 (60)	6.90 (60)	8.85 (60)
1937	2.64 (90)	3.70 (29)	4.40 (70)	6.16 (283)	7.68 (283)
1938	2.61 (179)	3.77 (101)	6.78 (179)	7.91 (179)	9. 10 (179)
1939	3.52 (207)	6.81 (24)	6.81 (24)	6.81 (24)	8.57 (397)
1940	3.08 (142)	4.00 (190)	6.12 (190)	9.02 (190)	11.60 (115)
1941	3.65 (391)	3.87 (470)	3.98 (42)	4.00 (50)	5.23 (563)
1942	2.95 (520B)	4.80 (419)	4.80 (419)	5.79 (283)	9.53 (285)
1943	3.19 (275)	4.36 (275)	4.75 (58)	4.88 (275)	6.70 (566)
1944	4.88 (505)	8.06 (505)	8.16 (505)	8.21 (505)	8.36 (505)
1945	2.45 (503)	4.03 (605)	4.43 (521)	6.24 (154)	7.65 (154)
1946	2.89 (651)	3.92 (403)	5.30 (403)	6.53 (505)	7.57 (384)
1947	2.41 (101)	5.82 (538)	5.82 (538)	5.82 (538)	5.82 (538)
1948	2.70 (283)	4.00 (15)	4.41 (446)	5.73 (191)	7.30 (509)
1949	3.55 (679)	4.57 (488)	5.72 (254)	7.67 (254)	9.94 (233A)
1950	2.60 (327)	3.53 (69)	4.63 (233A)	6.23 (233A)	9.20 (233A)
1951	4.00 (210)	4.80 (407)	4.80 (407)	6.25 (109)	7.34 (111)
1952	3.83 (575)	4.85 (575)	5.70 (575)	6.76 (575)	7.54 (115)
1953	3.10 (691)	4.65 (153)	4.65 (153)	4.93 (233A)	6.90 (200C)
1954	3.58 (154)	4.29 (438)	5.52 (438)	8.87 (393)	8.87 (393)
1955	3.18 (704A)	3.72 (255)	4.61 (154)	6.25 (233A)	8.56 (462A)
1956	3.00 (381)	4.73 (682)	4.73 (682)	4.73 (682)	7.53 (17A)
1957	3.51 (385)	3.75 (738)	4.70 (268)	5.05 (190)	7.60 (190)
1958	3.00 (135)	3.97 (522)	5.49 (135)	5.49 (135)	6.51 (109)
1959	3.50 (506)	6.34 (506)	6.34 (506)	6.34 (506)	8.7 (742)
1960	3.43 (711)	7.34 (711)	7.45 (711)	7.45 (711)	7.45 (711)
1961	2.58 (624)	3.50 (249)	3.66 (575)	5.63 (286)	10.19 (279A)
1962	3.52 (75)	4.54 (276B)	4.54 (276B)	5.30 (277)	7.43 (191)
1963	3.45 (762C)	6.95 (382A)	6.95 (382A)	7.27 (581)	7.57 (762A)
1964	2.44 (788)	3.50 (462)	4.55 (201A)	6.10 (280)	13.10 (286)
1965	3.10 (228)	5.65 (169)	5.65 (169)	5.65 (169)	11.52 (190)
1966	3.80 (662)	5.05 (662)	•	5.78 (662)	8.47 (283)
1967	3.33 (816)		6.40 (115)		
1968	5.50 (F1)	8.80 (F1)			11.13 (F1)
1969	2.90 (813)	6.17 (800)	6.92 (800)	6.99 (800)	7.05 (800)

TENNESSEE RIVER BASIN PRECIPITATION DURING 1969

Precipitation in Inches

	Above Chattanooga	Below Chattanooga	Tennessee River Basin 75-Yr Deviation from I			
Month			1969	Mean	Monthly	Cumulative
January	3.89	4.48	4.16	4.88	-0.72	-0.72
February	5.81	5.66	5.74	4.84	+0.90	+0.18
March	3.44	2.94	3.21	5.61	-2.40	-2.22
April	3.64	6.94	5.18	4.48	+0.70	-1.52
May	2.89	4.22	3.51	4.08	-0.57	-2.09
June	5.77	2.92	4.45	4.24	+0.21	-1.88
July	4.59	3.26	3.97	4.91	-0.94	-2.82
August	4.87	3.90	4.42	4.17	+0.25	-2.57
September	3.60	3.37	3.49	3.20	+0.29	-2.28
October	2.02	3.15	2,55	2.84	-0.29	-2.57
November	3.19	3.82	3.48	3.57	-0.09	-2.66
December	6.80	8.76	7.71	4.76	+2.95	+0.29
Total	50.51	53.42	51.87	51.58		

Mean precipitation figures are for the period 1890-1964.

PRECIPITATION STATISTICS FOR SELECTED STATIONS

Precipitation in Inches

Month	Long-Term Mean	Maximum of Amount	of Record Year	Minimum o	f Record Year	<u>Year</u> 1969
	ELIZABET	HTON, TENI	NESSEE (7	'8 Years)		
January	3.41	8.13	1947	0.46	1896	2.22
February	3.41	7.59	1944	0.46	1968	5.09
March	4.18	10.72	1899	1.37	1937	2.93
April	3.40	6.05	1912	0.65	1942	3.64
May	3.96	7.73	1915	1.08	1941	1.86
June	4.59	16.38	1872	1.33	1946	4.52
July	5.14	10.56	1896	1.10	1872	4.55
August	4.31	12.14	1901	0.89	1896	2.16
September	2.89	7.61	1928	0.30	1903	3.43
October	2.55	7.61	1918	0.02	1904	1.52
November	2.41	5.02	1948	0.61	1931	1.86
December	3.31	9.87	1872	0.30	1965	4.21
Annual	43.56	58.91	1928	29.06	1941	37.99

PRECIPITATION STATISTICS FOR SELECTED STATIONS (Continued)

Precipitation in Inches

Month	Long-Term Mean	Maximum o	of Record Year	Minimum o	f Record Year	Year
						1969
	MURPHY,	NORTH CAR	OLINA (95	Years)		
January	5.54	14.85	1882	1.75	1907	4.51
February	5.70	15.10	1873	0.56	1906	6.93
March	6.23	15.34	1917	1.62	1967	3.58
April	4.84	15.40	18 7 4	0.30	1915	5.22
May	4.01	11.25	1929	0.46	1941	2.16
June	4.89	9.31	1884	0.94	1964	4.93
July	5.66	13.42	1950	0.89	1957	5.01
August	4.99	13.96	1920	0.95	1953	8.09
September	3.33	8.04	1962	0.20	1876	4.84
October	3.04	9.27	1949	0.00	1963	1.32
November	3.81	13.18	1948	0.51	1924	2.53
December	5.18	12.98	1932	0.48	1965	4.37
Annual	5 7. 22	84.80	1875	40.00	1940	53.49
	CHATTAN	OOGA, TENN	NESSEE (9	1 Years)		
January	5.23	14.74	1882	1.13	1961	6.84
February	5.04	12.30	1939	0.62	1941	5.82
March	5.84	14.05	1899	0.93	1910	2.96
April	4.66	15.29	1911	0.44	1942	4.20
May	3.83	12.00	1929	0.54	1941	2.36
June	3.99	9.40	1949	0.29	1931	3.61
July	4.64	13.49	1916	0.20	1957	2.32
August	3.77	12.36	1920	0.45	1929	6.20
September	3.16	12.19	195 7	0.04	1919	4.70
October	2.96	11.91	1925	0.08	1938	1.72
November	3.62	13.59	1948	0.16	1890	2.11
December	5.10	13.68	1961	0.44	1889	7.98
Annual	51.84	72.37	1929	32.68	1904	50.82
	LEWISBU	RG, TENNES	SSEE (76 Y	Years)		
January	5.15	17.05	1950	1.26	1943	4.33
February	5.08	13.14	1939	1.08	1941	4.85
March	5.86	12.50	1902	0.94	1910	3.29
April	4.61	12.60	1912	0.56	1915	7.53
May	4.18	12.01	1967	0.60	1941	4.32
June	3.96	13.46	1900	0.72	1899	2.67
July	4.52	9.85	1941	0.84	1954	6.01
August	3.96	11.40	1923	0.57	1909	2.51
September	3.16	12.41	1957	0.32	1927	2.88
October	2.91	8.88	1919	T	1963	4.81
November	3.77	10.27	1948	0.46	1953	2.89
December	4.84	11.71	1922	0.77	1958	8.53
Annual	52.00	66.62	1950	37.42	1904	54.62

PRECIPITATION STATISTICS FOR SELECTED STATIONS (Continued)

Precipitation in Inches

Month	Long-Term Mean	Maximum o Amount	f Record Year	Minimum of Amount	Record Year	<u>Year</u> 1969
	MUSCLE SH	IOALS, ALAI	BAMA* (86	6 Years)		
January	5.07	13.09	1950	1.20	1961	3.96
February	5.02	13.64	1948	0.54	1941	5.22
March	5.75	16.15	1897	1.26	1910	3.65
April	4.58	16.07	1892	0.74	1930	5.82
May	3.96	11.29	1939	0.16	1941	3.34
June	3.98	13.87	1900	0.60	1897	4.27
July	4.48	14.60	1916	0.77	1935	7.24
August	3.76	10.60	1894	0.35	1948	6.45
September	2.98	7.87	1890	0.00	1897	2.80
October	2.59	11.05	1918	0.00+	1963	4.34
November	3.49	11.39	1948	0.16	1949	3.63
December	4.99	14.59	1926	0.83	1958	12.16
Annual	50.65	76.21	1932	30.92	1943	62.88

^{*}Before December 1940 this station was at Florence, Alabama. +Also minimum for 1924.

JOHNSONVILLE STEAM PLANT, TENNESSEE* (86 Years)

January	5.29	23.51	1937	0.44	1963	2.91
February	4.29	9.56	1939	0.73	1968	3.52
March	5.23	13.07	1927	0.59	1910	1.82
April	4.59	12.29	1892	0.53	1887	4.52
May	4.29	10.19	1909	0.48	1951	2.49
June	3.95	13.34	1928	0.37	1930	3.27
July	4.04	10.12	1892	0.06	1890	1.64
August	3.74	13.70	1914	0.34	1948	5.97
September	3.35	11.31	1921	0.00	1897	0.66
October	2.74	11.44	1919	0.00	1963	2.58
November	4.10	11.90	1906	0.74	1949	4.67
December	4.57	14.66	1926	0.05	1889	6.92
Annual	50.18	76.17	1950	32.48	1960	40.97

^{*}Before August 1949 records collected at Johnsonville have been used.

PRECIPITATION STATISTICS FOR SELECTED STATIONS (Continued)

Precipitation in Inches

Month	Long-Term <u>Mean</u>	Maximum o	f Record Year	Minimum o Amount	f Record Year	<u>Year</u> 1969
	HENDERSONVII	LE, NORTH	CAROLIN	A (73 Years)		
January	4.59	12.40	1906	0.39	1907	3.31
February	4.67	10.73	1891	0.54	1930	5.18
March	5.39	11.67*	1952	0.96	1930	4.94
April	4.36	9.38	1920	0.43	1915	4.25
May	4.37	12.70	1942	0.95	1914	3.00
June	5.25	11.56	1934	0.96	1911	9.20
July	6.03	22,09	1916	1.72	1957	4.51
August	6.12	26.58	1901	0.49	1925	11.24
September	4.43	14.00	1906	0.22	1919	4.84
October	4.15	14.59	1918	0.01	1904	3.11
November	3.38	12.54	1948	0.21	1910	3.44
December	5.00	12.85	1918	0.23	1965	5.23
Annual	57.74	92.60	1901	32.55	1925	62.25

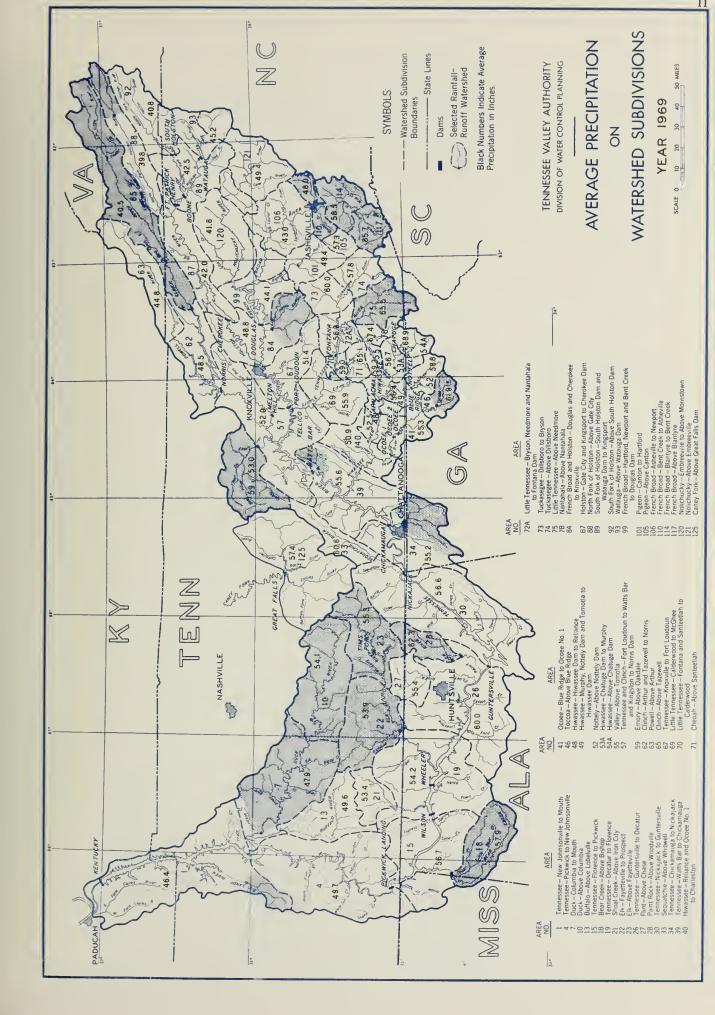
^{*}Also maximum for March 1891.

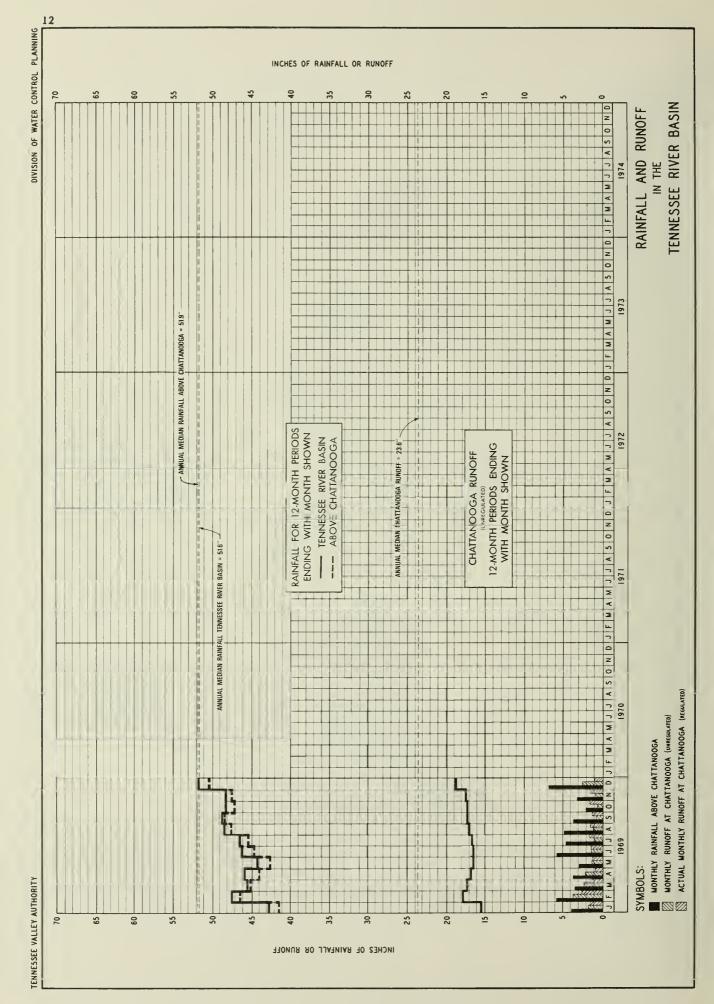
	KNOVVI	LLE, TENNE	SSFF (00 Vo	ana)		
	KNOXVI	LLE, IEMME	BEE (99 Te	<u>a15)</u>		
January	4.63	16.98	1882	1.29	1907	3.56
February	4.69	12.52	1873	0.56	1898	5.36
March	5.13	13.35	1917	0.72	1910	2.82
April	4.20	17.32	1874	0.70	1942	2.16
May	3.73	8.81	1938	0.71	1941	1.28
June	4.12	11.83	1928	1.39	1936	7.38
July	4.60	13.16	1917	0.69	1901	3.81
August	3.84	11.33	1920	1.10	1953	5.77
September	2.85	10.78	1944	0.18	1961	4.42
October	2.55	9.51	1925	0.00	1963	2.17
November	3.39	11.69	1948	0.17	1890	2.99
December	4.35	12.34	1901	0.47	1965	8.81
Annual	48.08	73.87	1875	33.67	1930	50,53

AVERAGE PRECIPITATION ON WATERSHED SUBDIVISIONS

1969 MONTHLY AND ANNUAL

	Annual	51.87	50.51	53.42	53.73	44.64 49.44	41.90	46.80 47.52	60.03	61.05	43.60 46.69	56.63	59.75	
	Dec.	7.71	6.80	8.76	3.86	5.23	3.44	5.66	6.37	6.16	7.80	5.78	5.20	
	Nov.	3.48	3.19	3.82	3.64	3.23	3.03	3.01	3.97	4.21 4.23	3.10	3.30	3.98	
	Oct.	2.55	2.02	3.15	2.94 3.43	3.10	1.90	2.27	3.29	2.82 3.45	2.40	1.74	3.20	
nes	Sept.	3.49	3.60	3.37	3.76	3.69	2.93	3.24	3.93	3.86	1.67	3.53	3.67	
ion - Incl	Aug.	3.95	4.87	3.90	6.74	5.04	3.13	4.29 4.39	7.30	7.78	3.58	7.95	8.57	
recipitati	June July Aug.	3.97	4.59	3.26	5.14 5.71	4.99 5.53	5.03	4.96 5.38	4.28	3.96	4.97	4.62	4.84	
iverage Pr	June	3.91	5.77	3.68	5.82 4.55	5.81 4.26	5.02	5.67	7.32	6.63 4.69	3.96	5.25	6.26	
4	May	3.51	3.85	4.22	3.21	2.75	2.32	3.77	3.31 4.19	3.55	2.23 3.81	2.99	3.41	
	Apr.	5.18	3.64	42.4 76.9	4.22 4.17	3.98	3.57	3.41	4.57	4.99 5.03	3.67	4.73	5.11 5.24	
	Mar.	3.21	3.44	2.94	4.48	4.07	2.82	3.57	4.67	4.58 6.51	1.87	4.02 6.18	4.06 6.26	
	Feb.	5.74	5.81 4.88	5.66	5.06	5.09	5.20	5.27 4.23	7.16	7.41	5.01	6.71	5.92	
	Jan.	4.16 5.25	3.89	4.48 5.66	3.29	3.05	2.51	2.88	4.7 ⁴ 5.96	4.91 6.00	2.87	5.07	4.92	
		1969 Average 35-Yr Average	1969 Average 35-Yr Average	Average Average	Average Average	Average Average	1969 Average 35-Yr Average	Average Average	Average Average	Average Average	Average Average	Average Average	Average Average	
		1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	1969 35-Yr	verages.
								oxville		Ħ				35-Year Averages Based on 1935-1969 Averages.
	gl	asin			rt	as Dam	mas am	Above Kn	cGhee	ontana Da		ŭ	Dam	Based on
	Subdivision	e River B	tanooga	tanooga	ove Newpo	ove Dougl	herokee D	nch Broad	e Above N	e Above F	orris Dam	Charlesto	Hivassee	Averages
	031	Entire Tennessee River Basin	Area Above Chattanooga	Area Below Chattanooga	French Broad Above Newport	French Broad Above Douglas Dam	Holston Above Cherokee Dam	Holston and French Broad Above Knoxville	Little Tennessee Above McGhee	Little Tennessee Above Fontana Dam	Clinch Above Norris Dam	Hiwassee Above Charleston	Hiwassee Above Hiwassee Dam	
		Entire	Area A	Area E	French	French	Holsto	Holsto	Little	Little	Clinc	Hiwas	Hiwas	Note:





b. For Period 1874-1964

MONTHLY AND ANNUAL RAINFALL AND RUNOFF

TENNESSEE RIVER ABOVE CHATTANOOGA, TENNESSEE

Drainage Area - 21, 400 Square Miles

Solution Solution									10
Same Feb. Mar. Apr. Apr. Aug. June July Aug. Sept. Oct. Nov. December Sept. Oct. Nov. December Sept. Oct. Oct	Annual		50.51 64.09 37.23 51.11			18. 95 36. 54 11. 22 23. 62 23. 61			29, 900 57, 600 17, 690 37, 200 37, 200
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dec.		6.80 9.98 0.54 4.55			2.50 5.11 0.41 1.93 1.68			46, 400 94, 800 7, 700 35, 800 31, 200
May June July Aug. Sept. Octavity Sep	Nov.		3. 19 10. 30 0. 44 3. 28 3. 13			0.85 3.77 0.30 1.10 0.84			16, 400 72, 400 5, 800 21, 100 16, 100
Jan. Feb. Mar. Apr. May Jume July Aug. Sep.	Oct.		2. 02 8. 37 0. 04 2. 90 2. 48			0.57 3.17 0.30 0.80 0.70			10,600 58,900 5,510 14,800 13,000
Jan. Feb. Mar. Apr. May June July Au 3.89 5.81 3.44 3.64 2.89 5.77 4.59 4. m 10.32 9.69 11.40 7.49 7.95 8.67 11.07 13. m 10.32 9.69 11.40 7.49 7.95 8.67 11.07 13. a 4.57 4.71 5.18 4.20 4.04 4.45 5.27 4. r 4.23 4.47 5.15 4.15 3.80 4.49 5.07 4. r 4.23 4.24 3.80 4.49 5.07 4. r 4.23 4.15 3.80 4.49 5.07 4. r Period 1890-1964 11.30 1.25 1.27 4. 1.26 1. m 9.42 1.23 2.11 1.25 1.27 4. 1. 1. 1. 1. 1.	Sept.		3.60 7.69 0.77 3.26 3.21			0.74 2.69 0.21 0.84 0.69		65	14, 100 51, 500 3, 990 16, 100 13, 200
Jan. Feb. Mar. Apr. May June July 3.89 5.81 3.44 3.64 2.89 5.77 4.59 m 10.32 9.69 11.40 7.49 7.95 8.67 11.07 a 4.57 4.71 5.38 4.20 4.44 4.45 5.22 a 4.23 4.47 5.15 4.15 3.80 4.49 5.07 r 4.57 4.47 5.15 4.15 3.80 4.49 5.07 r 4.23 4.15 5.15 4.15 3.80 4.49 5.07 m 0.50 0.62 1.30 1.01 0.61 0.61	Aug.	696	4.87 13.33 1.25 4.50 4.15		696	1.05 4.28 0.26 1.13 0.96		874 - 190	19, 500 79, 400 4, 760 21, 000 17, 800
Jan. Feb. Mar. Apr. 3.89 5.81 3.44 3.64 um 10.32 9.69 11.40 7.49 um 1.42 0.85 1.37 0.95 a 4.57 4.71 5.38 4.20 r Period 1890-1964 r Period 1874-1964 r Period 1874-1964 32,900 74,500 42,300 40,400 um 174,800 147,800 178,500 136,400 um 174,800 147,800 178,500 136,400 um 174,800 147,800 178,500 136,400 b 56,200 66,600 70,700 57,200 b 51,200 66,600 70,700 52,400	July	1890 - 1	4.59 11.07 2.02 5.27 5.07		- 47	0.94 3.90 0.45 1.32 1.11			17, 500 72, 300 8, 300 24, 500 20, 600
Jan. Feb. Mar. Apr. 3.89 5.81 3.44 3.64 um 10.32 9.69 11.40 7.49 um 1.42 0.85 1.37 0.95 a 4.57 4.71 5.38 4.20 r Period 1890-1964 r Period 1874-1964 r Period 1874-1964 32,900 74,500 42,300 40,400 um 174,800 147,800 178,500 136,400 um 174,800 147,800 178,500 136,400 um 174,800 147,800 178,500 136,400 b 56,200 66,600 70,700 57,200 b 51,200 66,600 70,700 52,400	June	n Inches,	5.77 8.67 1.73 4.45		n Inches, (Unregula	1.27 3.75 0.50 1.42 1.26		eet Per 9 Unregulat	24, 400 72, 000 9, 600 27, 200 24, 200
Jan. Feb. Mar. Apr. 3.89 5.81 3.44 3.64 um 10.32 9.69 11.40 7.49 um 1.42 0.85 1.37 0.95 a 4.57 4.71 5.38 4.20 r Period 1890-1964 r Period 1874-1964 r Period 1874-1964 32,900 74,500 42,300 40,400 um 174,800 147,800 178,500 136,400 um 174,800 147,800 178,500 136,400 um 174,800 147,800 178,500 136,400 b 56,200 66,600 70,700 57,200 b 51,200 66,600 70,700 52,400	May	Rainfall i	2.89 7.95 0.80 4.04 3.80		Runoff ii	1, 25 5, 28 0, 61 1, 99 1, 76		n Cubic F	23, 200 98, 000 11, 300 36, 900 32, 700
Jan. Feb. Mar. 3.89 5.81 3.44 um 10.32 9.69 11.40 1.42 0.85 1.37 4.57 4.71 5.38 a 4.57 4.71 5.38 um 9.42 7.45 9.62 1.77 3.62 2.28 3.81 3.03 3.27 3.81 3.28 r Period 1874-1964	Apr.		3.64 7.49 0.95 4.20 4.15			2.11 7.11 1.01 2.98 2.73			40,400 136,400 19,400 57,200 52,400
Jan. Feb. 3.89 5.81 um 10.32 9.69 um 1.42 0.85 4.57 4.71 a 4.57 4.71 a 4.57 4.71 r Period 1890-1964 r Period 1874-1964 r Period 1874-1964 r Period 1874-1964 r Period 66,600 um 174,800 147,800 um 174,800 12,700 um 56,200 66,600 b 51,200 63,400	Mar.		3.44 11.40 1.37 5.38 5.15			2. 28 9. 62 1. 30 3. 28			42,300 178,500 24,100 70,700 60,900
Jan. 1969 3.89 Maximum 10.32 Meana 4.57 Mediana 4.23 a. For Period 1890 Minimum 9.42 Minimum 0.50 Meanb Nedianb 2.76 b. For Period 1874 Maximum 174,800 Minimum 9,200 Minimum 9,200 Meanb Meanb 51,200 Meanb Meanb 51,200	Feb.		5.81 9.69 0.85 4.71	-1964		3.62 7.45 0.62 3.27 3.11	-1964		
1969 Maximum Meana Mediana a. For Pe Maximum Minimum Meanb b. For Pe 1969 Maximum Medianb Maximum Medianb Meanb Meanb Meanb Meanb	Jan.		3.89 10.32 1.42 4.57	riod 1890		1.77 9.42 0.50 3.03	riod 1874		32,900 174,800 9,200 56,200 51,200
			1969 Maximum Minimum Mean ^a Median ^a			1969 Maximum Minimum Mean ^b Median ^b			mm q.

RAINFALL AND RUNOFF FOR SELECTED WATERSHEDS

Rainfall Minus Runoff inches	32.9 34.5 35.5 30.1	32.0 25.0 39.1 29.9	32.6 26.7 38.6 30.6
Runoff in Percent of Rainfall	27.2 32.6 40.6 35.0 51.7	37.4 59.6 25.7 32.1	50.2 30.8 31.2 52.2
Departure inches		-2.7 +1.1 -8.4 -1.5	+0.6 -5.3 +5.2
January 1 - December 31, 1969Rain- Depar- fall tureRunoff turefall tureinches inches	12.3 16.7 23.5 19.1 32.2	19.1 36.9 13.5 23.1 13.0	32.9 11.9 17.5 33.4
y 1 - Dec Departure ture inches	-6.2 +0.4 +4.1 +0.6 +6.6	-2.4 -0.3 -40.6 -4.5	+3.6 -2.6 +1.8 +5.7
Januar Rain- fall inches	45.2 51.2 57.9 54.6 62.3	51.1 61.9 52.6 53.0 40.5	65.5 38.6 56.1 64.0
Drainage Area sq. mi.	205 2571 667 1784 320	428 177 117 764 1474	436 222 353 945
Station	Bruceton Hurricane Mills Bishop Prospect Woodville	Chickamauga Dial Decatur Oakdale Tazewell	Needmore Saltville Sevierville Asheville
Stream	Big Sandy River Duck River Bear Creek Elk River Paint Rock River	South Chickamauga Creek Toccoa River Sewee Creek Emory River Clinch River	Little Tennessee River North Fork Holston River Little Pigeon River French Broad River

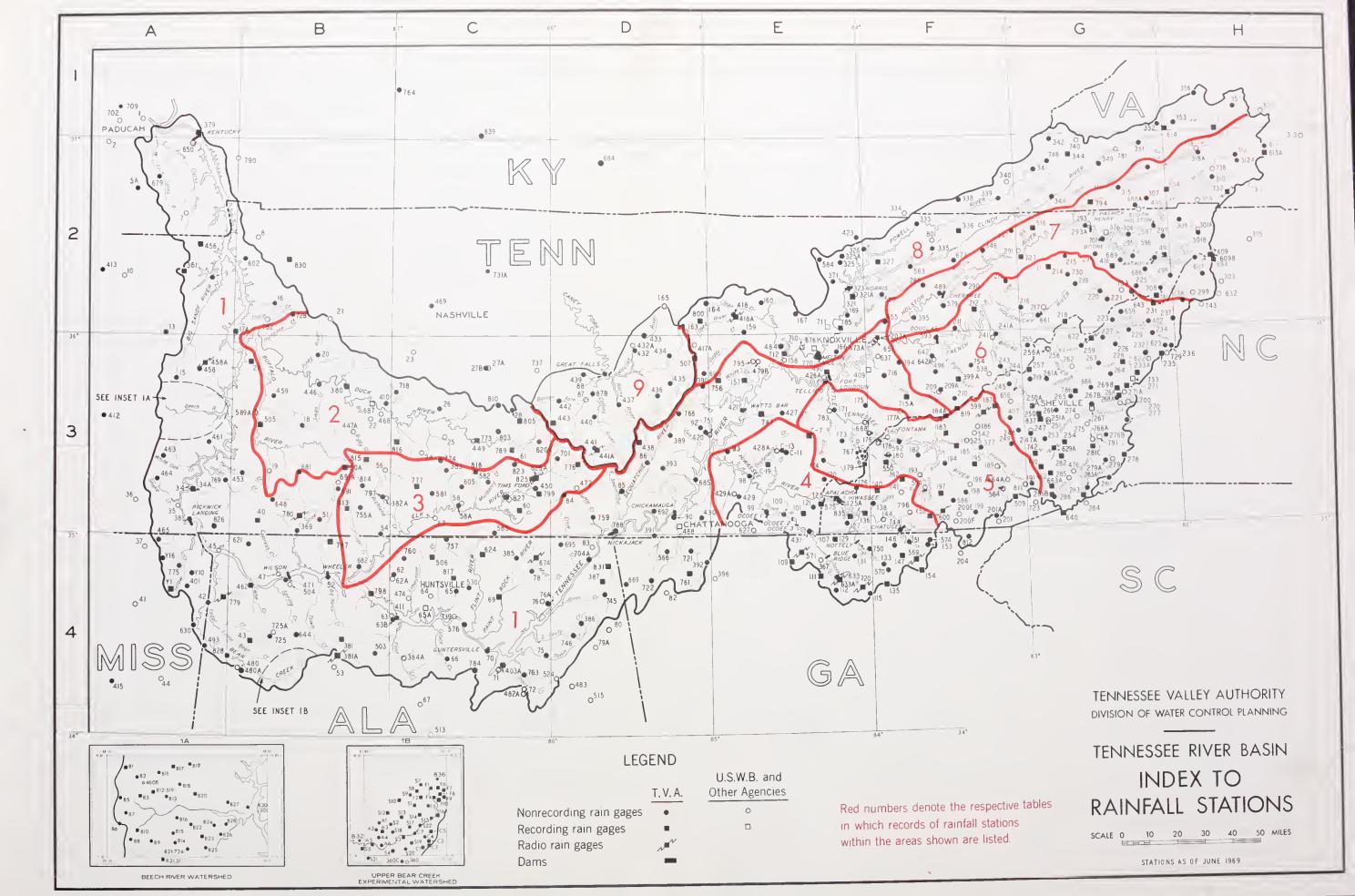
Rainfall and runoff departures are referred to the 35-year period 1935-1969, except runoff departures for Paint Rock River, 1936-1969. a,

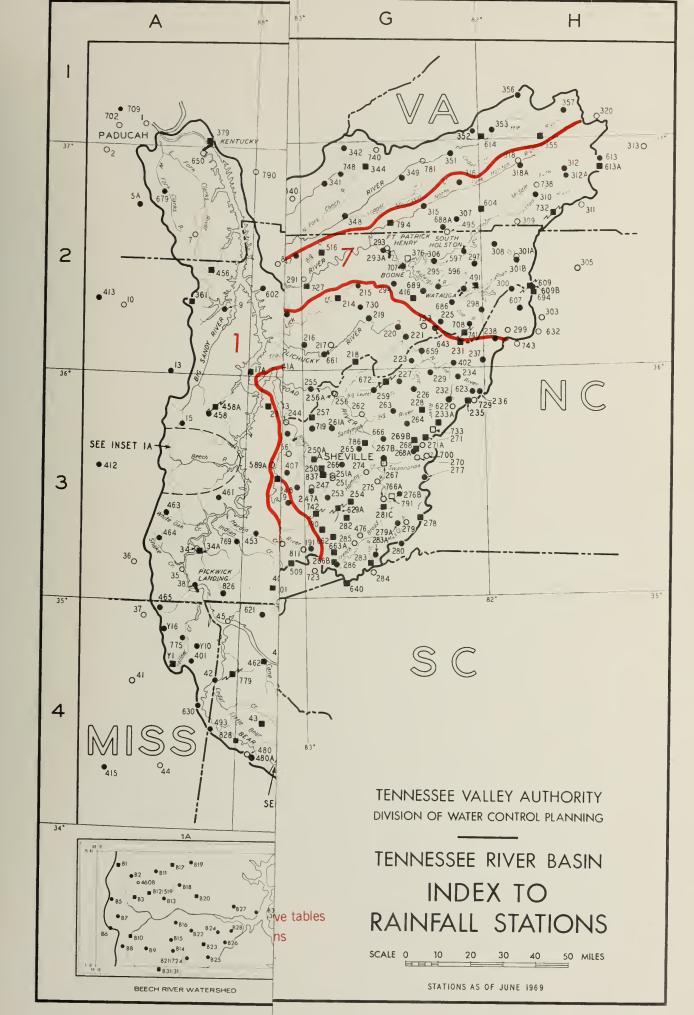
Locations of watersheds are shown on map "Average Precipitation on Watershed Subdivisions." Runoff data are furnished by the U. S. Geological Survey and are tentative.

EVAPORATION DATA-YEAR 1969

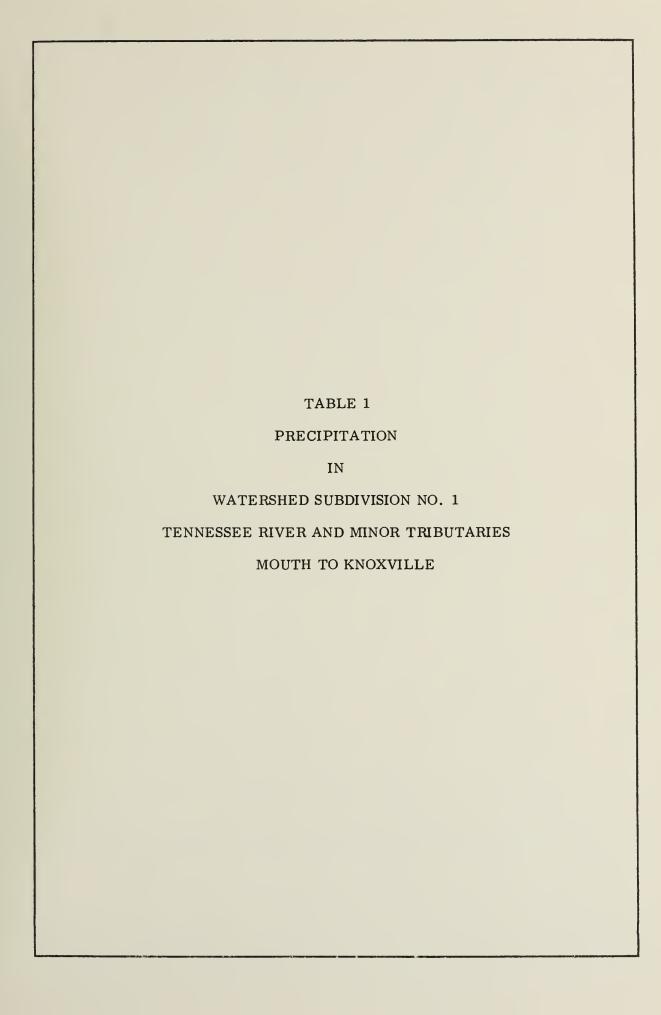
Annual	41.85a 34.11a 43.48a 45.90a	58.90 45.41 41.88 54.87 37.63	7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	61a 	48 8 1 1 1	0.70
Dec.	1.25a 0.88a 1.32a 1.10a	4.83 7.65 5.02	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	38a 12 	118883	1.06 1.168 2.11 2.06
Nov.	1.36 1.11a 1.47 1.62a	2.73 2.11 2.88 3.26 1.77	39 4 4 6 2	47a 43a 46 50a	87 81 81 	0.75
Oct.	2.48 1.82 2.73 3.29 3.44	1.50 1.60 1.60 1.36	53 53 53	61 57a 60 62 62	86 87 83 	0.42 0.55 0.74 0.97
Sept.	3.78a 2.54 4.03 4.44 3.79a	5.08 3.14 2.32 3.78 1.56	64 67 67 62	74 44 44 68 44 68	922 82a 87	0.30 0.58 0.58 0.95
Aug.	5.43 4.30a 5.81 6.83 5.57a	8.12 2.54 2.51 4.93	70 72 74 68	888343	81.89	0.33 0.40 0.84 0.85 0.87
July	6.32 4.92 6.70 7.45a 5.41	3.99 4.45 3.99 3.99	47.252	84 81 84 _a 87	868	0.34 0.31 0.72 0.84
June	5.58 4.96a 5.97 7.02a 5.15	5.21 5.31 4.01	02 04 14 69 14 69	88848	88 92 77 17 11	0.32 0.34 0.90 0.90
May	5.44 4.85 5.67 5.31a 4.76a	2.57 3.79 1.88 4.89	62 67 61	71 73 73 75	88 88 	0.56 0.59 0.89 1.30
Apr.	4.08 4.13a 4.25 3.83a 3.72	5.89 4.47 6.72 3.10	52 52 52 52 52 53	65 ₈ 62 64 65	7.48 6.58 1.33 1.33	0.91 1.06 1.37 1.37
Mar.	2.68a 3.02 2.46a	4.13 2.58 3.58 2.45 7.45	40 41 42 37	44 44 48 15 15	74 72 61 	1.42
Feb.	1.80 1.14a 1.38a 1.58a	7.76 4.71 5.29 6.20 4.58	34 413 34	173 173 173 173	1 8 6 6 7 8 8 9 9 9 1 1	1.62
Jan.	1.36 0.78a 1.13a 0.97	5.61 2.63 3.35 4.46 2.16	35 33 33 31 31	38	82 75 71 84	0.89 1.11 0.87 2.01
	Murphy, N. C. Beetree Dam, N. C. Jefferson City, Tenn. Pulaski, Tenn. Marion, Va.	Murphy, N. C. Beetree Dam, N. C. Jefferson City, Tenn. Pulaski, Tenn. Marion, Va.	Murphy, N. C. Beetree Dam, N. C. Jefferson City, Tenn. Pulaski, Tenn. Marion, Va.	Murphy, N. C. Beetree Dam, N. C. Jefferson City, Tenn. Pulaski, Tenn. Marion, Va.	Murphy, N. C. Beetree Dam, N. C. Jefferson City, Tenn. Pulaski, Tenn. Marion, Va.	Murphy, N. C. Beetree Dam, N. C. Jefferson City, Tenn. Palaski, Tenn. Marion, Va.
	Evaporation (Inches)	Precipitation (Inches)	Average Air Temperature (Degrees F)	Average Water Temperature (Degrees F)	Average Relative Humidity (Percent)	Average Wind Velocity (Miles Per Hour)

a = Partly estimated





Figures in the "mean or normal" column in the following tabulation are determined as follows: For the U. S. Weather Bureau stations, the figures are normals based on the 30-year period 1931-1960, computed by the Weather Bureau. For TVA and other agency stations with 21 or more years of record through 1969, the figures are long-term means adjusted to the 35-year period 1935-1969. For stations with 5 to 20 years of record in 1969, the figures are running averages for the period of record. No means are listed for records of less than 5 complete years.





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	Sta.	Station Name			Yrs.	Yrs. of J	JANUARY		FEBRUARY	Σ	MARCH	APRIL	311	MAY	>	JUNE	7	JULY	AUC	AUGUST	SEPTE	SEPTEMBER	OCTOBER		NOVEMBER		DECEMBER		YEAR	Depth of
100 101	-						N leto		otal Nor 'I		l. Nor I		Nor'I	Total	Nor 1	Total Nor'l		Nor 1	Total	Nor 1	Total	Nor 'I	Total		Total Nor		ral Nor'l	Tot		Jude (Inches)
1		TENNESSÉE RIVED HOUTH TO MHÉELE		ON ND.						1.97		07**	4.26		0 5 . 4	6.23 3.78	4.17	3.48	3.46	3.32	0.62	3.12	4.05 2					43.89	46.05	7.3
Color Colo		SHAWNEE STEAM PLANT		36						2.29		5.35	4.03		4.71		2.91	3.86	3.70	3.20	0.00	3.57	ĺ				- 1	45.07	46.82	17.6
1		LOVELACEVILLE X KENUCKY DAM R GILBERTSVILLE, NEAR X		4 9 4				-		2.41 1.67 8 2.26		5.00	3.93		4.15		5.29	3.32 2.98 4.41	3.58	3.25 2.76 3.51	2.96	3.08		.35	3.77 4.0 4.30 3.7 4.20 4.5			47.89 8 38.90 8 51.37	47.34	20.0
1	679 5A 7	MICKSVILLE MAYFIELD SUBSTA MUSRAY		9 8 9 6						2.35		6.31	4.31	1.26	4.31 4.50 4.18		3.13	3 M O . W	3.26	3.23	1.03 2.32 1.65	3.16		.54	6.96 3.9		1 1 1	50.55	47.61	15.9
Color Colo		GOLDEN POND ODVER LAND STEAM PLANT #		444						3.36	5.25	* 4.19 9.04 6.01	3.87	2.38	3.93	3.16 3.67	2.69	4.47	3.25	3.44	2.00	3.53			•		1	# 45.03 51.60 42.30	46.42	16.1
Color Colo		ODVER FIRE TOWER, WERD BUCHANAN R SPRINGVILLE		44 4 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4						2.02		9.49 6.19 6.51	4.48		4.22		2.58		5.07	3.19	0.94	3.31 2.83	141414			13 7.1	15 4.05	48.35	50.96 48.62 48.16	14.0
Color		PARIS R HUNTINGODN WILDERSVILLE		643						2.61		9.41 5.78 # 6.76	4.51		4.03		2.76		5.32	3.46	1.02	3.28						\$2.59 44.46 8 43.15	49.08	9.
	16 782 174	ERIN.MEAD MAVERLY JOHNSONVILLE STEAM PLANT R		440						2.02			5.39		4.19 5.28 4.10		2.18		5.40	3.55	0.68	3.15					L' i	44.06	51.40	110.
Martin		CAVVIA CAVVIA, RADIO CUBA LANDING #		58 60 42						1.93			4.81 4.11 4.31	3,36 2,50 2,27	4.41				7.34	3.01	# 0.70 0.77	3.40		-				48.79 8 35.90 42.38	51.10 42.25 47.23	8
		DUNBAR, TENNESSEE CLIFTON JUNCTION OLIVEHIL		547						2.39			5.10	2.90	4.54		3.56 1.72 3.10		7.13	3.62	1.78	2.93				_		54.65 50.72 52.11	52.07 50.90 49.49	5.7
		VICTORY R ENVILLE POLLARDS MILL		94						3.49		0.51 7.98 9.85	80° 4	4.22 3.56	3.93	3.36 3.77 2.39 3.14 3.17	2.38	3.92	5.27	2.98	1.80	2.99						54.50 45.54 58.13	53.55	2.0
	34 A 464	SAVANNAH X SAVANNAH R LEAPHOOD, NEAR		44.00				*		2.72			4.87		3.98				5.63	3.65	2.00	3.12 2.81 3.03							53.00 50.14 50.16	2 2
Color Colo		SH1LOH SELMER ACTON, NEAR		47						2.82			5.01		4.16 3.61 4.01				4.32	3.28	1.39	3.37							\$2.19 \$2.21 \$2.60	1.2.
Color Colo	1	CORINTH X PICKWICK LANDING DAM GLENS		47						3.47			4.72		3.002				3.25	3.40	* 1.50 2.05 4.65	2.77		}				8 60.71 50.03 58.26	\$1.76 48.93 \$1.18	
		BURNSVILLE IUKA MIDWAY		400						3.00			5.13 5.01 5.02		4.10				2.98	3.61	1.78	3.13						54.00	52.15 51.24 53.14	-
		CAIRD, NEAD 0 00DNEVILLE 8DNE CAVE, RADID		750						3.98			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		4.32				3.86	3.37	8 2.68 2.99 3.60	3.25				•		59.49	49.79 53.95 45.29	
		BISHOP BELGREEN RUSSELLVILLE, ALABAHA		47 81 75						3.87			5.17		4.33				2.19	3.76	2.39	2.75		1						-
		RUSSELLVILLE, NEAR BELMDNI, NEAR BED BAY		58				•		3.83			5.56		4.26				3.27	3.24	3.92	3.53						•	54.06 53.37 54.41	-0-
		BEAR CREEK DAM SITE R HODGES WATERLOD X		62				*		3.26			5.15		4.17				3.14	3.95	1.16	3.12		9				•	54.27	-
The color of the		YOUNGS STORE, MEAR COLBERT STEAM PLANT R FLORENCE X		848						3.98	-0 10 10	7.83 8 7.34 6.29	5.28		4.23				2.50	4.34 3.99	6.32 3.31 3.53	3.00 2.34 2.91							\$6.34 50.24 50.24	2 1
Fig. 1744 1940 24 1940 24 24 24 24 24 24 24		MUSCLE SHDALS XX MILSON DAM IRON CITY		888						3.65			4.41	3.34	3.49				3.87	3.23	2.80	2.85							49.21	2 6
Fig.		WEST POINT, RAGIO	1	106						3.10			5.10 5.06 5.21	3.60	4.16				2.40	3.98	2.60	3.24				•				พัต
No. Color Color		LOMENCEBURG LAWRENCEBURG X		880						3.39			5.02		4.08		•		3.99	3.96	3.62	3.05						# 56.31 51.68 52.53	54.24 52.97 51.90	4 6
HINTONINIES NOT TO MONINIES NOT TO THE	50A 644 767	ETHRIDGE R . NEWBURG LEXINGTON ALA R		101				-		3.43			5.10 m		90.4			7 , ,	3.92	4.50	3.05	3.52 2.87					4461	45.72 8 59.41 62.20	\$0.60 \$3.29 \$1.75	
HERERA DAM TO MODITILE-SUDDIVISION NO. 1. A C TA TA TO S S S S S S S S S S S S S S S S S S		WHEELER DAM MOULTON RADIO		8 9 9						3.34	5.4.2	6.10 6.67 6.50	4.36		3.70			4.35 4.13 3.71	3.97	3.91	2.35 3.25 3.10	3.97					0. 44.	52.56 56.15 8 51.95	50.65 48.99 50.64	
EMPLANT R C. 1 USF 3 TO 5 TO	t		DXVILLE-SUBDIVI	1510N N	1 0 1																									
CC4 TVA 712 35 5.01 5.07 7.03 5.02 3.12 6.17 7.05 5.09 5.09 5.10 5.10 5.10 5.10 5.10 5.10 5.10 5.10		CENTRAL YDWER Z NEAR ELMHDNIALA BROWNS FERRY STEAM PLANT R		940				()	10	2.90	90.40	6.62	4.81 5.28						5.40 2.21 3.76	3.66	4.38	3.27		•						
C-4 1VA 588 31 5.99 5.49 5.49 5.49 5.49 5.40 6.55 4.48 6.02 3.61 1.38 3.69 5.40 5.50 4.79 5.49 5.40 5.40 5.40 6.40 5.40 6.40 5.40 6.40 5.40 6.40 5.40 6.40 5.40 6.40 5.40 6.40 5.40 6.40 5.40 6.40 6.40 6.40 6.40 6.40 6.40 6.40 6		ATHENS, ALABAMA ATHENS, ALABAMA DECATUR NO. 4		712		•				3.21		7.45	5.39						3.52 2.80 2.63	3.67	2.30	3.77		•		•		•		
		DECATUR NO. 2 SUBSTA DANVILLE FALKVILLE		6.0						3.08		5.54	2 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8						2.98	3.67	3.59	3.30								o

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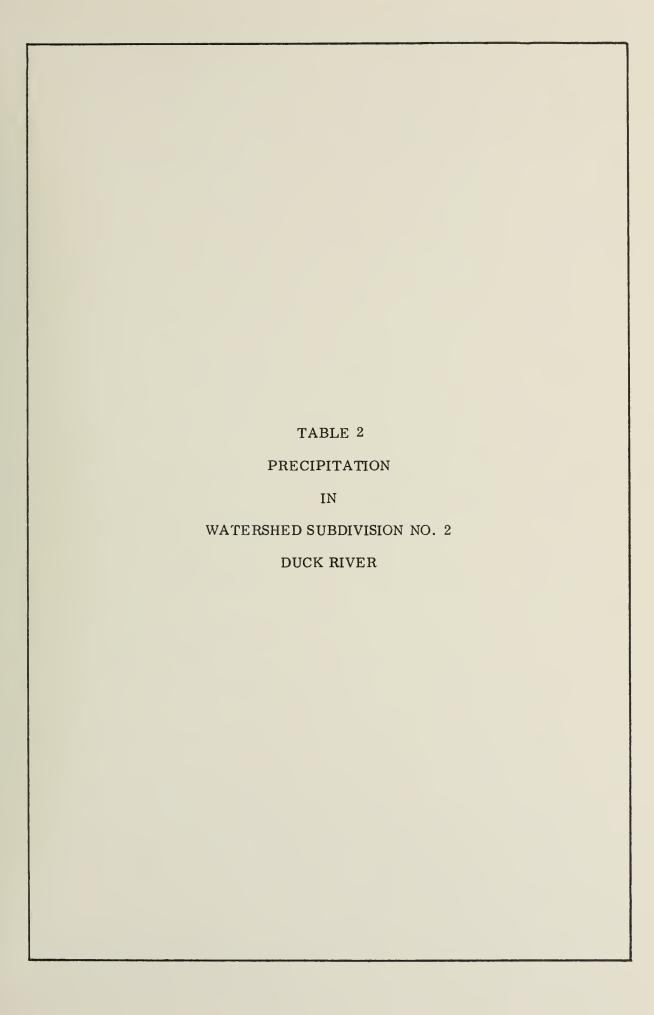
Depth of	(Inches)		1,5	1.5	0.1	1.2	6.0	3.5	1.0		2.0	1.6	1.0	1.2	9.5	8° 6	7.0 27.8 19.4	9.0	2.5 6.1	19.9	13.4	6.2	8.5 8.0 8.0	0.0 0.0 0.0	8.2 10.0 27.8	17.1	0.6	18.0	3.3	8.5
YEAR	Nor 1		\$0.50 \$2.22 \$0.57	58.86	54.08	58.99 49.09 54.87	52.98 52.71 54.85	57.56 60.15 49.03	55.87 49.45 50.35	51,31 57,75 33,21	52,90 54,75 53,93	54.96 54.57 52.93	\$2.19	53.63 55.41 55.50	50.16 49.27 57.77	54.02	57.04 59.52 61.50	53.46 54.20 51.32	52.34 35.19 53.92	57.93 50.63 57.43	51.96 53.67 52.13	55.17 51.23 52.48	53.12 54.97 53.68	52.45	54,25	53.21 51.60 52.57	\$2.90 \$2.84 \$2.20	53.11	49,29 48,78 45,85	47.11 50.58 50.63
YE	Total		53.28 # 74.77 60.22	63.85 57.18 70.05	64.90	67.94 8 51.17 54.70	# 56.23 55.07 66.18	66.13 66.03 8 56.10	8 59.07 52.65 8 44.41	# 41.10 51.08 # 49.13	8 49.25 52.04 50.52	52.15 51.08 53.34	10.14 57.17 50.77	\$6.16 8 57.87 58.57	52.83 54.82 56.57	58.58 59.89 59.36	69.74 8 62.69 67.39	61.50 62.71 8 61.12	# 55.02 # 52.17 59.18	59,75 48,41 62,35	50.82 # 49.27 56.11	64.13 49.51 50.67	49.71 55.39 52.12	30.51 18.71 70.60	56.62 56.77 59.41	55.81 54.04 8 48.57	50.71 57.69 # 55.50	8 54.67 51.18 8 55.38	51.43 # 43.79 48.98	47.37 50.52 49.41
BER	Nor 'I		5.07	4.91	5.18	5.06	5,11 5,21 5,15	5.73 5.70 5.23	4.95	4,90 5,60 5,17	5.03 5.52 4.95	5.26	4.81	5.11 5.38 5.23	4.55 5.06	5.32	3.59	5.27	4.91 5.41 4.82	5.77 4.59 5.31	5.19	5.01	4.80	5.83	5.32	5.26	5.24	5.34	4.74	4.17
DECEMBER	Total		8.90 11.22 8.64	9.48	7.57 10.47 8.79	8.96 8.72 8.06	8.46 8.16 9.15	11.60	5,96	5.48 6.21 6.13	6,77 6,95 6,62	7.32	6.32 6.77 5.66	6.12 8.42 9.51	6.40	8.90 7.32 9.06	9.63	10.02	9.55	9.20 5.27 8.64	7.98 5.59 8.45	7.10 5.91 5.97	5.61 6.08 8.67	6.85 10.06 10.32	10.94	11.16	0.55 10.38 9.51	0.62 10.93 10.55	7.00	7.71 6.35 5.18
MBER	Nor'1		4.02	3,65	4.29 4.16 4.02	4. E.	4.39	400	3.81	3.88	4.16 4.16	3.00 t	3.95	4.24	3.83	10.4	4.14	4.00 4.00 7.00 7.00	4.06	4.47 9.89 6.80	3.985	4.05 3.85 4.07	3.92 4.13 4.15	3,85	4.16	****	4.13	3.69	3.78	3.77
NOVEMBER	Total		2.61	2.61	2.75	2.61	2.20 2.36 2.87	2.84 3.09 2.90	3.11 2.70 2.92	3.23	3.02	1.80 3.06 2.32	2.39 2.73 3.09	3, 16 2, 99 2, 98	2.50 2.76 3.09	2.67	3.12 3.04 3.82	3.24	3.22	3.05	2.20	2.16	2.52	2.94	3,30	3.66	3.89	4.70 4.31 # 2.55	2.53 # 2.60 2.56	2.79
OCTOBER	Total Nor'i		2.24	2.72	3.14	2.11	2.18	2.91	2.39	3.06	2.51	2.60	2.95	2,34	2.43	2.43	2.86 2.99 3.19	2.83	2.23	3.06	3.02	2.99	2.93	2.76	2.57	2.81	2.67 2.31 2.61	2.59	2.55	2.45
00.1	Total		2.04	2.49	1.95 2.62 2.50	3.02 # 2.25 2.48	1.63 2.52 2.13	2.40	3.00	# 2.81 2.16 2.56	2.52 3.03 2.07	1.73	1.43	2.19	1.03	1.20	1.35 3.13 1.62	1.40	1.56	1.41	1.59	1.06	1.58	1.09	1.14	11.25	1.12 2.04 1.90	2.10 1.81 # 1.60	1.62 # 1.70 1.56	0.92
SEPTEMBER	Nor '1		3.41		3.04					3.21		3.52	3.10			3,90						4.18 3.01 3.51		3.44	3,43			3.76	3.19	2.68
SEPT	Total		3.07	4.39 4.90 10.19	10,43	5.20 2.66 4.48	5.35 4.47 9.58	6.02	6.25	# 3,22 5,29 3,94	3.95	3.85	0.0	4.45 6.17 5.85	3.58 4.08 3.99	3.53 4.11 3.96	7.28	7.47	3.83	3.87	5.75	14.20	4.30	5, 52 4, 53 8, 70	5.42	5.26	4.54	4,45 2,94 5,22	4.67	3.04
AUGUST	Total Nor'I		3.86	3.29	4.15 2.98 3.25	3.46	3.64	3.59	200	3.43	3.86	3.620	3.87	3.63	3,16	3.41	3.85	4.007	3,58		3.29	3.39	3.92	3.81	3.72	3.41	3.34			3.62
¥			3.14	3.38	2.12 5.63 2.78	3.50	-	3.97	4.58 2.20 2.58 2.58	1.93	2.92	5.45 4.14 6.29	0.0	4, 54 3, 01 3, 60	1.62	5.28 5.74	3.87	4.053	3.56		6.20 2.71 4.12	4.71		1		3.16 3.50	3.39	•	4.09 8 4.55 6.72	6.78 5.80 4.82
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	·		3.20 10.16 3 4.05	7 4.36 5.84 0 4.24	4.26	5.12		2.20	2.80	2.42 4.01 3 2.50		2.34	5.88		3.62	3,93	5.07 7 2.26 7 4.42	2 5,33 1 3,88	4.33 5.2.90 1.4.48		2.32		6.96		3.96	7.03	3.70 5.27 4.22	3.73 3.16 9 6.01		3.23
JUNE	Total Nor"			6.15 3.37 2.65 2.65 4.50	1.67 3.81 2.51 3.37 2.25 3.31	3,52 4,53 3,69 3,07 3,27 4,15	2.97 3.67 2.27 4.04 5.28 4.01	3.14 4.11 3.09 3.99 2.80 3.09	3.05 3.35 1.95 3.25 1.50 3.52	1.31 3.67 1.30 3.64 1.22 3.88	1.58 3.9 1.16 4.0 1.21 3.8	0.94 3.66 1.66 4.02 1.96 3.90		3.77 4.49 3.56 3.84 4.11 3.98	3.92 3.2 4.51 3.5	4.99 3.46 4.86 6.83 3.57	5.22 3.8 4.01 4.3 3.77 4.3		3.61 4.10 5.32 4.3 5.00 3.4			2.92 4.00 2.21 3.65 4.23 3.51	2.65 4.0 4.54 4.0 3.85 3.8		3.25 3.9 2.47 4.0 3.43 4.3	39 3.89 80 3.89 24 3.74	3.30 3.9 4.16 3.6 4.21 3.4	4.41 3.84 4.04 6.30 3.39		93 3.70 97 4.46 06 4.70
																										-		•		2 6.53 11 T.37 17 10.06
MAY	Total Nor'l		55 3.64 02 3.48	6.85 3.39 7.02 8.44 4.11	8.67 3.51 6.07 3.97 6.13 4.24	9.21 4.30 4.66 3.63 5.14 4.81		9.10 4.68 7.48 4.63	8.57 5.12 6.25 3.39 5.28 3.52	4.15 3.65 6.48 4.81 8.11 3.65		6.56 3.68 7.87 4.24 8.03 3.76	0.0 7.34 3.60 8.68 3.85	8.64 3.94 5.78 3.80 4.95 3.89	6.00 3.99 6.09 3.84 7.51 4.15	5.22 4.11 6.52 4.4T 3.T1	7.51 4.37 5.39 4.42 8.08 4.19		4.10 3.97 3.76 4.02 5.17 5.10			3.65 3.79 3.63 4.06 3.18 4.07	5.21 4.08 3.30 4.11 4.24 3.89	2.57 3.65	4.22 3.78 4.51 3.76 5.44 4.07	4.84 3.81 3.54 3.28 2.00 3.60		3.23 4.12 2.69 2.4T 3.65		1,49 3,42 1,71 3,31 1,62 3,97
				3.99 6.37	W 400 W 400 W 400	31 4			6.31 6.71 6.81	4 .95 6 .09 6 .50		5.62 6	4.82 7. 5.29 8	4.83 8 4.76 5 5.13 4	6.30 6.35 6.27 6.3	5.25 5	5.01 7		4.43 3 4.43 3		4.29 2 4.65 3 5.12 5			25 25 2 4.94 7	4,59 4 4,T1 4 5,12 5	5.11 4 4.58 3		4.99 3 2 3.95 2		4.18
APRIL	Total Nor'I			6,79 3. 5.51 6.55 5.	5.93 4.	8.26 5. 5.58 4.		5.84 5. 5.89 5.	5.18 6. 3.75 4.		4.69 4. 4.44 5. 5.57 5.	5.86 5. 3.95 5.	0.0 4.67 4.10 5.	5.20 4. 6.48 4. 5.76 5.	6.45 4. 5.45 4. 4.52 5.	5,49 5.	5.81 5. 7.44 5. 5.66 5.	4.99 4. 5.33 4.	4.11 4. 3.45 4. 5.19 5.			4.42 4. 4.06 4. 3.74 5.	5.62 4. 2.92 4.	3.92 4.		2.93 4. 2.30 4.		3.57 4. 3.89 2.39 3.		2.12 3.2.85 4.2.2.49 4.2
ı	Nor'1 T		5.65		000		5.72					6.06				5.63					-					5.55		6.39		
MARCH	Total No			3.00 5 2.88 3.78 6		4.12 6 2.57 5 3.37 6	1		# 3.56 6 3.05 5																					1 1
ARY			5.32 M	5.22	5.81	5.31	5.46	5.66	5,37 H	5,40 B 5,90	04.8	5.74 5.46 5.36	5.58	5.93 5.93 6.09	5.39 5.61 6.33	5.63	5.91 6.19 6.18	5.52	4.96 5.71 4.55	5.34	5.37 5.63 5.58	5.54 5.08 5.71	5.65 5.69 5.58	5.55	5.50 9.52 5.83	5.13	5.49 5.06 5.55	4.08 5.26	5.27 4.99 4.81	5.07 5.29 4.92
FEBRUARY	Total Nor'l		7.46 8.21 6.91	7.14	7.35	7.96	6.99	7.37	\$6.6 \$0.0 \$0.0 \$0.0	5.00 6.08 5.1T	4.34	5.27 6.97 5.15	5.59	5.86 7.88 8.36	7.17	7.71 6.20	7.25 7.34	6.55	6.90 9.92 7.20		5.82 7.20 7.01	6.05 6.56 7.15		7.39	5.84 6.56 6.51	5.97	6.96	6.11 5.08 6.26	5.54 5.54 5.94	6.02
1RY	Nor 1		5,36 5,56 5,31	5.22	8 4 8 1 4 8 1	4.00	5.90	6.10 6.22 0.0	5.36	5.56	5.28	5.88 5.60 5.60	5.40	5.62	5.23	5.56	5.62	5.23	4.4T # 5.57 4.99	5.98	5.61	5.65 4.77 4.99	5.14	5.53	5.95	4.61 4.31 5.54	5.44 4.78 5.50	4.60	5.31	4.74
JANUARY	Total Nor'I	2	5.80 7.15 6.36	7.38 5.89 7.52	7.75	6.46 4.83 4.83	5.64	7.07	6.19 6.05 5.04	9.05 9.65 5.28	4.38	4.07	0.0 4.99 5.68	5.47 6.76 6.45	5.22	7.08 # 5.83 6.25	T.09 7.02	4.65 5.44 9.02	5.45	6.71 5.15 7.33	6.0 9.0 9.90 9.90	5.92	5.23	6.44 0.0 T.34	6.27 5.23 6.49	5.03	5.65	6.19 5.44 4.43	5.87 5.67 4.11	3.15 3.61 2.55
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×	Elev. R	N NO. 1	600 670 615	624 695 780	802 658 573	1600 830 875	760 920 650	665 1570 1785	1062 611 622	618 995 1060	1010 1195 755	656 1120 920	1540 1010 1320	1405 680 640	640 1390 1540	625 1335 690	670 1920 2140	750 2120 820	864 980 641	1670 820 1970	671 760 850	010 1280 815	940	769 T08 1850	725 740 1800	864 780 1080	830 1880 770	930 2000 780	9860	1100 400 1010
		UBOIVISIO	AP1 USW8 TVA	USW8 TVA TVA	USW8 TVA USW8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	TVA TVA	TVA TVA					TVA USW8 TVA		TVA TVA	TVA TVA USW8	TVA TVA			7VA 1VA 1VA			TVA USW8 7VA	7VA TVA TVA	7VA TVA 7VA	USW8 TVA 7VA		USK8 TENN USK8	TVA USOA USW8	TVA TVA TVA
	Index Owner	KNOXVILLE-SUBOIVISION NO		311	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	111	157	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	444		343		1-0	7 4-0	11100	11100	0-5	0-5		0-3	0 - 1 - 0 0 - 1 - 0	111	F-4-0	0-3 0-3 T	0-3 0-5 1	0-3 U E-5 T E-5 7	E-3 7	### ### ###	#	F F F 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
		5																			ES									
Station Name	and Location	HEELER D		*	XX						×				100H	IM PLANT			بر بر	ES ES	R XX	S.		PLANT ES	E	s 9 1			STA ES	
Statio	and L	TENNESSEE RIVER-WHEELER DAM	A, NEAR X	LE NW R		MO NO. 6	₩ X	010	ILLE DAM	1116 x 116 116	STATE FARM JLLE	וו	VIEW EAD	80 00	GROVE SC	REEK STEA	N, TENN TOWER	JUNCTION	E X C DAH SIT	SIGNAL MOUNTAIN ES RISING FAWN ES LOOKOUT HOUNTAIN ES	OGA AJRPE UGA PARK JN ES	E ES K GAP R E ES	JUL ES S JGA DAH	ES NUCLEAR APEL	IP SCHOOL WN ES PRINGS ES	DAYTON X ES BOGGE CROSSROAD R RIDOLES STORE ES	R DAH ES	ROCKWOOD ES HT ROOSEVELT Z ES LENDIR CITY ES	FORT LOUDOUN DAM R US COTTON FIELD STA KNOXVILLE AIRPORT R	CE ES ES R ES
		TENNESSER	BELL MINA, NEAR X MADISON X MUNTSVILLE SUBSTA	HUNTSVILLE AP R XX HUNTSVILLE NW R CENTER GROVE	ST BERNARD FARLEY REOSTONE ARSENAL	HONTE SAND NO. 6 TONEY R BE7HLEMEN	NEW MARKET R ELORA PAINT ROCK R	SWAIH LE7CHER HYTOP, RAOIO	ARAB CUNTERSVILLE CUNTERSVILLE	GUNTERSVILLE MUSTLEVILLE ALBERTVILLE	SAND HT STATE P	LEESBURG SOUTH HILL FT PAYNE	PLEASANT VIEW VALLEY HEAD RAINSVILLE	SYLVANIA SCOTTSBORO SCOTT5BORO	PLEASANT GROVE SCHOOL FLAT ROCK R 10ER	MIDOWS CREEK STEAM PLANI MIGDON R BRIOGEPORT X	SEWANEE LOCKHART TOWER	CAGLE R CACLE COLLEGE JUNCTION	PIKEVILLE X LITTON NICKAJACK DAH SITE	SIGNAL HE RISING FI LOOKOUT P	CHATTANDOGA AJRPDRT CHICKAMAUGA PARK ES KENSINGTON ES	LAFAYETTE ES NICKAJACK GAP R ES RINGGOLO ES	TUNNEL HILL ES DALTON ES CHICKAMAUGA DAM	ODLTEWAH ES SEGUDYAH NUCLEAR LEWIS CHAPEL	FRIENDSHIP SCHOOL HORGANTOWN ES MORGAN SPRINGS ES	BOGGE CRI	WATTS BAR DAM JEWETT R ES RODOY R ES	ROCKWOOD HT ROOSE LENDIR C	FORT LOU US COTTO	PACVIDENCE ES WILDWOOD ES 70HNSEND R ES
Sta.	O V			65A 617 66	67 576 739	530 506 757	624 585 69	585 78A 674	784 70 403A			-		386 76 76A	695 58T 745	704A 851 85	73.9	4 W 6 W 60 0 W 60		692 669 591	488 566 722	82 761 721	396	9899	989	751	421 756 157	4798 795 426A	637	394 716 715A

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	TENNESSEE RIVER-MHEELER OAH TO KNOXVILLE-SUBDIVISION NO.	0xV1LLE-5U801	VISION N	-	CONTINUEO												-			ľ											
4734 651 207A	UNIV TENN FARM LYSIMETER PLOT ES UNIV TENN GEOLOGY BLOG 2 ES KNOKVILLE (EVANS BUILOING) R ES	F-3 UT F-2 UT	850 974 900	100		3,73 4, 3,56 4,	4.86 %. 4.85 %. 3.97 %.	5.36 4.82 5.09 4.25	2.59 2.82 2.34	59 5.25 52 5.03 34 4.69		3.91	1,15		7.13 7.38 7.35	9.60	3.70 3.81 2.67	5.65	6.49 5.77 5.20	3,43	3.92	2.79	2.17	2.48	2.85 2.99 3.81	3.62 3.69 8.47	7.88 4	4.52 4.42 4.42	48.08 49. 50.53 47. 46.06 43.	57 77 77	1. 1
655	RITTA ES	F-2 TVA	1030			3.65 4.	4,95 5,	5.57 5.27	2,15	un'	8 3.04		1.36		6.48	3.90	2.01	96.4	4.50	3.55	3.67	2.93	1.73	2.49	3,14	9.80	7,20 4	.62	.5.50 4.5	.6.	0.0
	BEECH RIVER WATERSHED (SEE INSET 14)	9																													
937	CENTER RIOGE CHURCH R CAOE BIRO FARM LEXINGTON R	A-3 TVA A-3 TVA A-3 TVA	948 980 830		17 3. 17 2. 17 2.	3.00 4. 2.84 4. 2.31 4.	4.39 5.	5.53 5.02 5.00 5.03	1.66		6 6.46 6 6.88	5.02	2.14	4 4 6 5 5 0 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4.54 3.13 3.57	3.80	2.96 3.73 1.74	3.97	5,53 5,15 5,15	3.00	2.20 2.44 1.46	3.42	2.05	2.12	4.52 4.68 4.68	5.0.6	5,82 4 6,21 4 5,72 4	4.4.4	45,36 41 47,28 41 43,14 40	45.	0.4
4608 85 86	LEXINGTON, TENN RUBY GROVE SCHOOL PALESTINE	A-3 USW8 A-3 TVA A-3 TVA	529 515 580	- LTI		2.49 2.2.81 4.2.48	2.84 5. 4.91 5.	5.56 3.86 5.18 5.02 5.80 5.40	1.97		3 5.71 2 7.56 0 7.12		2.30 2.36 3.31	4.83	3.02 2.79	3.29	2.75	4.46	3.70 5.14 5.05	2.77	1.34	3.36	2.26 2.67 2.45	2.22	3.73 3	3.36	5.91 4	.46	38.64 4	43.82 48.25 49.12	9.6
1	JOHNSON FARH STEGALL-NEAR OVER CHAPEL		960 948									5.43	2.55 2.41 2.37		3.65	3.18	3.38	3.97	4.96	3.17	1.28	3.28	2.39	2.23	4.90 5.34 4.97	9.00	6.13 4 7.14 4 7.56 4		46.29 46.89.18 5:	49.74 52.40 47.72	2000
1	PINE LAKE OP ROBERTS SCHOOL DAK GROVE R (TVA 519)	A-3 TVA A-3 TVA A-3 TVA	470 655 510	20 20		2.53 5.0	**************************************	5.60 5.31 4.97 5.09 5.24 4.98	2.10		7 7.40	5.14	2.00 2.41 2.25		3.60	3.4.0	3,30 4,08 2,12	3.82	5.20 4.68 4.01	3.49	1.42	3.18	2.20	2.04	4.90 4.49 4.62	3.84 R	6.80 4 5.76 4 5.92 4	-	47.60 4	48.67 47.75 49.14	80
	PLEASANT HILL EGENEZER CHURCH SHAOY HILL		4 4 4 8 6 5 6 5			3.03 4.				38 5.05 11 4.91 19 5.02			2,53 2,83 3,16	4.34 4.77 4.80	5.03 2.79 3.21	3.35	1.46 2.62 3.92	3.63	4.30 3.96 5.12	2.62	1,58	2.85	2.33 2.78 2.78	2.03	5.23 4 4.04 3 4.79 3		6.22 4 7.50 4 7.54 4	6.31 4.65 4.62	46,25 4 45,19 4 50,20 4	47.27 48.26 49.11	4 4 W
	CHESTERFIELD NATCHES TRACE R B18LE GROVE	A-3 TVA A-3 TVA A-3 TVA	4 5 5 6 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	171		2.82 2.89 2.68 4.5	.63 5.06 54 5.15 69 4.87						2.99		3.27	3.50	3.13	6 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.39 4.56	3.02	1.37		2.63	1.92			5.86 4		46.97 4 44.03 4	47.30	3.0
	PLEASANT GROVE CHURCH CORINTH CHURCH R SCOTTS HILL (TVA 724)	A-3 TVA A-3 TVA A-3 TVA	36.9 4 70 8 8 0	200		2.65 4.0	4.60 4.55 4.85 5.	4,95 5.24 5,32 5.11 5,30 5.10	2.15					40.4	3.01	3,43	2,30	3.51	8 4.17 4.59 5.46	3.09	R 1.22 1.13 1.65	2.00	R 2.98 2.60 2.63	2.00 1.84 2.12	# 4.86 4.06 3	3.75 R 3.75 R 3.07	5.87 4 6.15 4 7.95 4	.35 #	42.13 4 45.71 4	46.39	3.0
	HIDDLEGURG OUNTVANT SCHOOL R CAMP GROUND CHURCH	A-3 TVA A-3 TVA A-3 TVA	465 485 425	711			4.83 5. 4.74 5.	5.37 5.08 5.05 4.95 5.42 5.16			4 7.66 9 7.74 9 7.79	5.21	3.30		2.53	3.44	2.92	3.67	5,35	3.14	1.13		2.60	2.01	4,79 3 4,79 3	3.75	7.26 4 7.29 4 7.15 4	4.67	47.71 6 46.22 4 47.34 4	67.73 67.67 69.67	3.0
	CRAWFORD CHURCH CONCORO CHURCHANEAR PARSONS		\$20 \$0\$ \$10					5.59 5.44 5.34 5.12 5.06 5.14	2,37				3,06 3,70 2,98		2.58 2.49 1.96	3.72	3.49	3.91	5.28 7.47 4.97	3.28	1,43		3.05	2.24	6,47 4 5,24 4 5,13 3	4.15			50,78 5 54,01 5	52.06 50.01 47.52	440
	GECATURVILLE PERRYVILLE (TVA 30) REAGAN R (TVA 31)	A-3 TVA A-3 TVA A-3 TVA	300 386 370	174 5 74 0 48		2.79 4.	4.87 4. 6.25 5. 5.84 5.	4.82 5.21 5.82 4.85 5.20 4.87	2.41		5 B.14 4 8.53 3 7.64		3.62 2.61 2.90		2.35 2.15 1.31	3.84	3,43	3.91	5,14 4,89 6,93	3.44	0.88	2.73 2.81 2.94	3.03	2.40	5.20 3 4.82 4 5.01 4	4.37	7.17	.52	49.17 49. 47.01 50. 48.62 49.	. 72 . 76	0.4
	UPPER BEAR CREEK WATERSHED (SEE INSET 18	SET 18)																													
	PHIL CAMPSELL, NEAR SHADY GROVE CHURCH, NEAR CENTER POINT CEMETERY, NEAR R	8-4 7 4 8-4 7 4 4 7 4	900		7 R 2.	2.80 4.2.80 4.	4.55 7.19 4.57 7.23 4.53 6.77	19 4.62 23 4.82 77 4.69	3.87 4.45 8 4.10		9 9.32 5 7.81 8 8.82	9000	3, 19 2, 49 3, 17	5.57	3.20	3.37	4.56 5.78 5.50	4.41 4.74 4.12	5.64	4.04	3.30	3.65	6.51 6.68 6.27	3.03 3.01 2.78	3.75 3	3.34 1	10.94 6 11.51 6 11.32 5	6.05 R	63.83 5 67.19 5 65.26 5	55.07 55.64 53.10	25.0
	BEAR CREEK CHURCH NO.1,NEAR BEAR CREEK,NEAR R BEAR CREEK,AT	8-4 7VA 8-4 TVA 8-4 TVA	850 800 810		7 R 3.05 7 R 3.05 7 3.13		4.60 7.46 4.73 R 7.09 4.67 7.56	46 4.83 09 4.77 56 4.76	# 4.46 4.25 4.39		8 8.35 3 9.39 6 9.59	6.35	2.87	5.08	2.54 1.77 2.10	3.07	8 6.35 6.36 6.88	5.76	4.71	4.60	4.58 5.56 4.71		6.28 6.64 7.11	2.91	3.70 3.86 3.71	3.49 1	10.94 6 11.74 8 11.63 6	6.01 R 8.18 R 6.36	65.27 5. 67.65 5. 68.57 5.	54,69 56,53 56,53	2.0
	FORKVILLE, NEAR R FORKVILLE, AT R PEBGLE, AT R	8-4 TVA 8-4 TVA 8-4 TVA	940		7 3. 7 R 3.	3.72 4.3	4.63 7.	7.41 4.45 7.53 4.61 7.14 4.41	3.95 1 4.20	20.00	1 7.51 8 7.55 5 7.06	9000	3.37	5.13	1.26 0.80	2.58	5.86 5.05	4.05	3.98	4.38	3.05		4.76 5.66 9.55	2.26	2.89 3		11.32 6	6.32 6.53 R	58.84 5 80.15 5 96.73 5	52.36 53.60 51.29	0.00
	PEBBLE, NEAR HAXWELL CHAPEL, NEAR R POSEY HILL, MEAR	0-4 TVA 0-4 TVA 8-4 TVA	930 990 820		7 3.	3.53 4.53.46	4.54 7.61 4.62 7.66 4.63 7.40	61 4.51 66 4.68 40 4.63	3.71	w w 0	9 7.61 3 7.64 7 8.46	5.86 6.08 6.27	3.74	4.90	0.76	2.69	5,14 3,82 5,35	3.79	4,23 4,45 4,13	4.80	2.24 1.42 2.27	3.72	6.51 7.55	2.68	2.90 3 3.06 3	3.41 1 3.46 R1	11.43 6	6.14 6.24 8.17 R	59,39 56,93 51,69	52.91 53.51 54.80	2.2
	KIHBROUGH CEHETERY, NEAR R OUBDISE CEHETERY, AT R BEULAH CHURCH, NEAR R	8-4 TVA 8-4 TVA 8-4 TVA	1020 1020 1020		7 R 4.	4.00 5.0 3.08 4.	5.08 8.03 4.70 6.71 4.71 7.39	03 4.84 71 4.95 39 4.97	5.18 3.92 4.26		6 10.21 4 8.84 7 8.97	6.30 5.90 6.15	5, 57 4, 56 4, 96		1.01	3.12	4, 47 4, 47 4, 46	4.93	3.77	5.04 5.04 5.62	3.68	4.89	# 6.89 5.35 5.29	3.67	4.11 3 3.61 3	3.36 1 3.20 1	12.48 6	6.29 R	69.34 5 58.67 5 61.11 5	59.30 56.26 55.94	0.00
	DRANGE CHURCH, NEAR HOUNT HOPE, NEAR ABOVE STATION XF-1 R	8-4 TVA 8-4 TVA 8-5 TVA	970 680 1060		6 R 3.49 1 2.97 6 3.35		4.56 7.73 4.54 85.97	73 5.13 97 89 4.89	# 4.63 # 4.29	53 5.75 30 59 5.28	~	5.86	5.35 5.10 5.38		0.55	2.70	5.13	5.15	3.60	5.01	5.01 2.95 3.30	4.25	6.02 4.99 5.17	3.03	3,19 3	3.48 1	11.06 6 9.70 10.12 6	6.63 R	65.99 5 57.80 61.18 5	57.00	0.00
	ABOVE STATION KF-2 R PINEY GROVE SCHOOL, NEAR R STINSON GAP, NEAR R	8-4 8-4 TVA 8-4 TVA 8-4	1070		9.89	3.42 4.3	4.87 # 7.17 4.77 7.43 4.56 # 7.21	17 4.93 43 4.98 21 4.88	4.32		5 8.85 0 8.82 0 8.59	5.86	\$.14 4.83 4.52		1.02	2.63	5.42 4.00 3.95	4.41	4.23	5.91	3.28 2.56 2.39	4.02	5.13 5.33 5.22	3.80	3.27 3.19 3.00		10.66 6	* *	61.68 5 60.04 5 57.40 5	56.05 57.02 55.00	0000
	AT STATION SF-1 CARROLL CROSSROAOS,NEAR R BATESTOWN BRIOGE,NEAR	8-4 TVA B-4 TVA B-4	1010		7 9.0	3.06 4.	4.76 7. 4.72 7.	7.32 4.94 7.23 4.55 7.04 4.64	4.22 4.07 R 4.34	****	2 8.28 0 9.86 4 10.07	5.95 6.28 6.56	4.97	4.84	0.78 1.12 2.82	2.89 4.19 3.25	5.04	4.36	4.04 4.18 5.04	5.27 4.39 4.61	3.12	3.66	5.94	3.16	3,47 3,51 3,76	3,39 1	12.73 6 10.89 5 12.03 6	6.50 5.69 6.15	81.88 5 62.36 5 65.11 9	54,92	2.00
	SMILDH CEMETERY, NEAR R DLO UNION CHURCH, AT R HACKLEBURG	8-4 7VA 8-4 TVA 8-4 TVA	900 930 825		7 3°. 2°. 2°. 1°.	3.06 4. 3.16 4.	4.53 7.	7,14 4,32 7,57 4,56 6,91	4.03	10 NO	0 8.63 2 8.60 10.25		3.73		1.28	3.24	6.16 8.76 4.78	4.38	3.73 4.27 5.02	4.93	1.58 3.35 1.93	3.92	7.37	2.91	3,25 3,25 3,98	3.30	10.96 5	5.88	61.05 67.27 60.05	52.92	1:0
	HOUNTAIN MOME CMURCH, MEAR R HALEYVILLE GRAY ROCK CHURCH, NEAR	8-4 TVA 8-4 USK8 8-4 TVA	830 910 1060	33		2.95 4.18 3.16	4.57 7.23 6.27 R 6.47 4.87 R 6.81	23 4.71 47 5.91 81 4.98	4.10 4.51 8 3.95	w	9.88 8.66 10.00	5.34	3.23		0.70 2.11 1.39	2.66 4.30 3.60	5.07	5.02	5.15 4.17 4.84	5.33	1.90	3.53	6.32 5.47 5.92	2.96	3.50 3	3.50 1	11.26 6	5.04 5.86 6.33	61.29 5 64.21 5 64.69 5	55.72 57.86 59.51	2 000
	DAK GROVE CHURCH, NEAR R ENTERPRISE SCHOOL, NEAR OLUE SPRINGS CHURCH, NEAR R	8-4 TVA 8-4 TVA 8-8	1040		6 3. 6 8 3.	2.85 4. 3.15 4. 2.71 4.	4.55 6. 4.59 6.	6.40 4.62 6.56 4.88 6.95 4.90		39 5.41 38 5.20 39 5.24	1 9.15 0 9.25 4 10.52	5.93 6.12 6.01	4.46		1.10	2.94	5.36 4.73 5.36	5.05	4.65 4.98 5.14	5.38	2.65 2.51 1.49		5.49	3.15	4.02 3.86 3.87	3.12 1 3.36 1 3.27 1	10.95 5 10.97 6	5.94	60.57 5 61.77 5 62.22 5	55.69 57.67 56.47	1:00
	HOUNTAIN VIEW CHURCH, AT RUNION HILL CHURCH, NEAR R	8-4 7 4 4 8-4 7 4 4	950 915 910		9 2 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2.92 4. 3.02 4.	4.65 6.61 4.54 6.88 4.55 7.18		3.71 3.87 4.06		2 9 60 2 8 63 4 8 33		2.94 4.28 5.37		1.80	3.24	5.18 6.89 4.16	5.02	5.64 4.37 4.05	5.38	1.91	3.908	6.63	3.08	3,68 3	3.26 1	10.64 6	-	61.03 5 61.99 5 99.11 5	55.18 56.29 53.79	0000
	KIHLOCK LOOKOUT TOWER, NEAR HACEOONIA CEMETERY, NEAR R DIME, NEAR	8-4 TVA 8-4 7VA 8-4 TVA	930		6 × 3°	3.17 4.3.31 4.3	4.63	6.91 4.84 7.07 4.88 7.01 4.99	4.00	00 5.49 03 5.49	9 8.33 0 8.33 6 8.85	5.93	4.96 5.52 3.65	5.08	0.30	2.83	3.95	3.87	8 3.62 3.58 4.34	5.23	3.45	4.32	6.49 6.25 8 7.26	2.75		3.36 1	11.35 6	≪ ≪ ≪	60.09 60.63 501.35	56,23 54,52 55,47	2.2
	BETHEL CHURCH, NEAR SUNNY HOME CHURCH, NEAR R CORINTH CHURCH, NEAR	8-4 TVA 8-4 TVA 8-4 TVA	965		6 R 3.	3,38 4,3 3,25 4,3	4.83 7. 4.50 # 7. 4.56 T.	7.71 5.20 7.80 5.00 7.46 5.03	4.04 4.12 3.90	N N N	9 9.04 7 8.96 4 9.17		3.83 3.01 3.24		2.31 1.15 1.70	2.40 2.65 2.31	4.66 7.18 11.67	4.71	5,48 4,07 3,21	4.80	2.42 2.34 2.16	9.80	7.16	3.07	3.68 3.08 3.37			6.43 6.67 R	84.48 5 63.47 5 67.18 5	55.32 55.30 56.95	2.0
																															ı

ى ى	24																
ZZZ	Snow Inches)	1.0															
7 7	AR D	97,50															
CONTRC	YEAR Snow Total Nor'l (Inches)	# 63.60 # 60.62															
WATER	DECEMBER Total Nor'I	11.90 6.93															
DIVISION OF WATER CONTROL PLANNING		1															
DIVISI	NOVEMBER Total Nor'l	3.20 3.34															
	OCTOBER Total Nor'I	5.44 3.00 7.06															
	SEPTEMBER Total Nor'l																
	AUGUST Total Nor'l	3.26 5.70															
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	è																
	JUNE Total Nor'I	1.15 2.43															
	M I Total	4.62 4.62															
	APRIL MAY Total Nor'! Total Nor'!	9.27 6.19						1							Į		
	MARCH Total Nor'I	4.35 5.67															
	FEBRUARY Total Nor'l T	5.22															
		4.67 7.40	Digital punch	;													
	JANUARY Total Nor'I	3.34	(DP)														
	Yrs. of Record	om	present														
	r Elev.	20	Recorder at present														
RITY	Index Owner Elev.	UPPER BEAR CREEK MATERSHED (SEE INSET 18) CONTINUED BAKEFELD, WERE POSEY MILLAT 8-4 TVA 9	(B)		3												
TENNESSEE VALLEY AUTHORITY		RSHEO (SEE	erpolated														
VALLEY	Station Name and Location	CREEK MATE	or partly int														,
ESSEE	S	UPPER BEAR CREE BAKEFIELO, NEAR POSEY MILL, AT	Interpolated or partly interpolated														
TENN	Sta. No.	\$21 \$22	(#)														

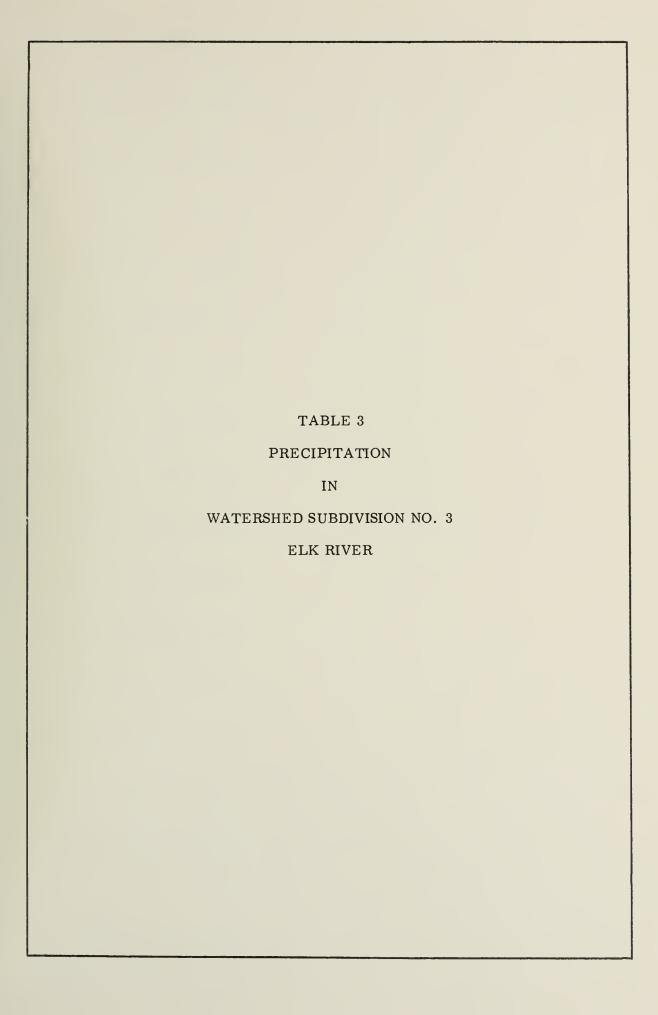
ANNUAL 1969 PRECIPITATION - In Inches





1. The proposal state of the control	Z	TENNESSEE VALLEY AUTHORITY	HORITY							AUNINOA	L	606	2	-	LACOLLIA INCHES		0					DIVISION OF WATER CONTROL PLANNING	4 OF 1	WATER	CONTR	OL PL	ANN
The control of the	100				Yrs. of		JARY	FEBRUA		MARCH		RIL	MA		JUNE	JULY			SEPTEMB		TOBER	NOVEMBE		CEMBER		AR	Depth Snow
1	0		Index Owner	- 1	Record		Nor'I	Total N		rtal Nor		Nor'1	Total		fotal Nor'l	Total No.			Total Nor	- 1	I Nor'l	Total Nor	- 9	tal Nor 'I	-3	Nor 1	(Inche
201 000 000 000 000 000 000 000 000 000	000			\$28 498 980	30	2.90	\$ 2.00											3.91 6.46 112								52.08 52.44 50.20	8.0
252 252 252 252 252 252 252 252 252 252	000			975 730 805	82 65 17	3.42	5,95																		•	51.53 55.20 49.46	2.0
200 200 200 200 200 200 200 200 200 200	0-0	1		9 50 6 00 4 8 6	54 76 30	3.29	5.00															1	_			46.80 50.94	8.5
200 000 000 000 000 000 000 000 000 000	140			580 720 629	31 17 22	3.48	3.0.5											3.55		*		1				46.63	7.0
	Ne0			729 679 620	97 22 31	3.93	5.79											3.57								\$2.04 \$0.32 49.83	11.0
	9 10	Į.		720 629 679	91 81 93	4.92	9.00							Ì				3.52								49.50	6.9
	400			787 770 709	34	4.33	8.36 8.36 8.44	}								1		3.30					•		•	\$1.37 \$0.35 \$0.47	12.0
The continue of the continue	700		1	606 960 743	300	4.31	3.47											3.66			ł					48.75 49.66 51.78	11.0
Weight of the control	0 0 0			755 815 1000	200	4.21	9.22		}	1		[3.92				Į				92.31	13.1
Monthalia in particular in par	000	E		9000	93	4.64	5.63											3.60									10.7
Interpolated or partly interpolated (R) Recorder at present (DP)	0			7601	02	61.45	9.03											3.14									7.0
Interpolated or partly interpolated (R) Recenter at present (DP)																											
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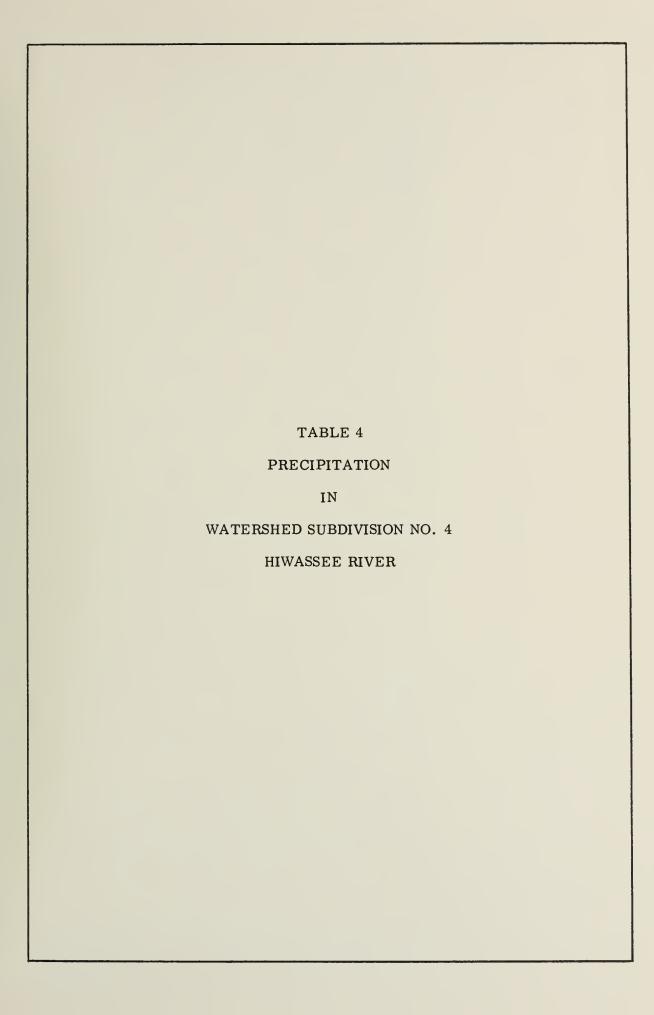
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Denth of	YEAR Snow Total Nor'l (Inches)	9. 7	2.5	3.0	7.5	8. 6. 4 0. 6	8.0	5,2	17.7	7.0	25.6									: .		
	707,107	54.58	52.76	\$6.76	53.57	52.32	\$5.67	55.50	53.72	53.12	53.17											
	YEAR Total No	* 50.14 50.70	1	* 45.58		52.33 94.01 54.78	†	\$6.34 \$7.11 \$5.48	61.57 56.07 36.65	# 52.96 # 41.80 58.31	56.20											
1	IBER Nor'I	5.14	5.75	\$.0 4	5.28	5.23	5.29	5.63	4.48	5.27	6.97											
	DECEMBER Total Nor 1	7,000	9.9%	# 7.63 7.78 7.73	9.53	9.48	10.00	10.41	11.69	10.17 6.90 9.27	6.92											
	NOVEMBER Total Nor'1	4.39		,0.4	3.67		3.69	3.97	3.92	4.27	3.70											
	NOV Total	3.45	3.20	3.22	3.40	2.85	3.08	2.80	3.22	2.46	2.18											
	OCTOBER Total Nor'I	2.60	3.12	2 - 7 1		1		2.47	2.61	2.40	2.96											
	10C T	3.51	3.71	3.28	3.86	2.50	4.26	2.25	3.22	2.80	1.91											
	SEPTEMBER Total Nor'I	3.70	3.74	3.25	3.63	3.38	3.50	3.57	3.36	4.17	3.22											
	SEPTE	1.93	3.36	2.20	6.10 4.98 4.79	5.63 5.50 4.72	4.56 5.98 5.09	7.79	3.09	3.40	0.19											
	AUGUST Total Nor'l	3.13	3.86	3.62	3.63	3.38	3.91	3.29	3.45	3.23	3.72							!				
	AUC	3.58	3.36 2.63 2.21	5.16	3.72	2.59 2.61 3.13	3.06	2.52	5.73	3.65	177									. ;		
	JULY Total Nor'!	5.46	00	4.61	6.07 4.54 4.52	4.59 5.03 5.42	\$.00	4.48	5.07	9.00	5.45											
	JULY Total No	2.41	3.99	0.50	2.75	3.01	5.20 4.21 1.14	1.16 2.69 2.75	2.20 2.01	1.94	1.51											
	Ner.1	3.87	3.48	3.60	3.34	3.65	3.72	3.77	3.63	3.69	1°.64											
	JUNE Total Nor'I	2.66	2.57	2.74 # 3.06 3.55	2.93	2.28	4.12 3.47 4.13	3.60	2.72 2.54 2.73	3.11	3.77											
	MAY Total Nor'!	4.33		90.4	\$.00	\$.11 4.05 4.56	5.13	3.65	3.76	6 ** 5	06.4											
	Total 🗷	99.59	3.66	4.25 # 3.26 3.25	4.81	4.20	4.08	4.05	6.02 6.07 2.39	# 2.99 2.50 5.14	3.46											
	APRIL Total Nor'l	4.62	5.29	6 9 9	5.17 4.36 4.45	5.06 4.23 4.73	5.65	4.52	****	4.70	5.32											
	APRIL Total No	5.99	6.25	8.04 7.71 7.66	7.44	5.74	10.04	6.51 6.24 6.69	7.48	6.00 6.00 6.00	5.02											
	MARCH Total Nor 1	5.93	6.47	0.07	5.97	5.30	5.74	5.93	5.73	9.58	6.39				:							
	Total	3.30	3.20	# 3.02 # 2.69 3.07	3.14	3.20	3.00	3.57	3.01	2.94	3.48											
	Total Nor'I	5.61	4.80	6.22	5.80 0.80 0.80	5.04	6.03	5.72	5.67	5.26	6.91											
	Total Nor'	0.00	0.19	5.52 5.75 5.23	5.57 5.82 5.77	5.74 5.63 5.80	5.52 5.61 5.50	5.60	7.18	5.60	7.01	1 punch										
	Nor 1	8 . 8 0 8 8	3.85	0.01	6.11	5.67	80.4	5.23	6.02	90.4	6.47	Divited										
	JANUARY Total Nor'l	1,00		3.00		4.90	4.28 4.32 5.23	5.07 4.01 4.09	5.38	5.04 # 4.70	9.81	(da)										
	Yrs. of Record	25 52	113	W W 1	26	16 54 26	31	34.	89	202	30	sent										
	Elev.	740 905 905	920 656 655	710	755 626 675	700	826 860 810	760 970 765	1040	915	1920	Recorder at present										
	wner	>>> 4 4 4 4	1 VA US#6 1 VA	1 VA 1 VA U S#8	7VA USW8 TVA	TVA USW6 TVA	4 \ T \ A \ T \ A \ T \ A \ A \ A \ A \ A	1 V A	TVA USW8 TVA	TVA TVA	TVA											
	Index Owner	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6-3 6-3		C-3 C-3	555			 	D-3	(R)										
	40	2										olated										
	Station Name and Location	ELK RIVER-SUBOLVISION NO. SHOEHANER SPRINGS REVIEL	NT X ON STA	A R						1010		Interpolated or partly interpolated										
	Station and L	SPRINGS	ATER PLA	VILLESNE	K K	917 116 116	UBSTA HURCH R	DAM R	x R SUBSTA	RINGS R	×	ed or par										
		ELK RIVER-SUBOIVISI SHOEMAKER SPRINGS REVILO BETHEL	SHORE PULASKI MATER PLANT X PULASKI EVAPORATION STA	MERKEY CAMPBELLSVILLE, NEAR R LYNNVILLE, NEAR	OJANA, NEAR R COLOMATER X BOONSHILL	FAYETTEVILLE FAYETTEVILLE SELLEVILLE	PETERSBURG BELFAST SUBSTA CHARITY CHURCH	LYNCHBURG BELVIOERE R TIMS FORO DAM P	TULLAHOMA TULLAHOMA X WINCHESTER SUBSTA	ESTILL SPRINGS R ESTILL SPRINGS, RAGIO HILLSBORG	ELKHEAD R MONTEAGLE	nterpolat										
	Sta. No.	662 613 54 86	7554 St 3824 Pt 797 Pt	815 815 50 10		1	363 PE 774 66	562 L1 60 8E 627 TI	623 TU 61 TU 450 WI	625 ES 6254 ES 701 HI	776 EL	1 (%)										
-			_													 1						

DIVISION OF WATER CONTROL PLANNING

ANNUAL 1969 PRECIPITATION - In Inches

TENNESSEE VALLEY AUTHORITY

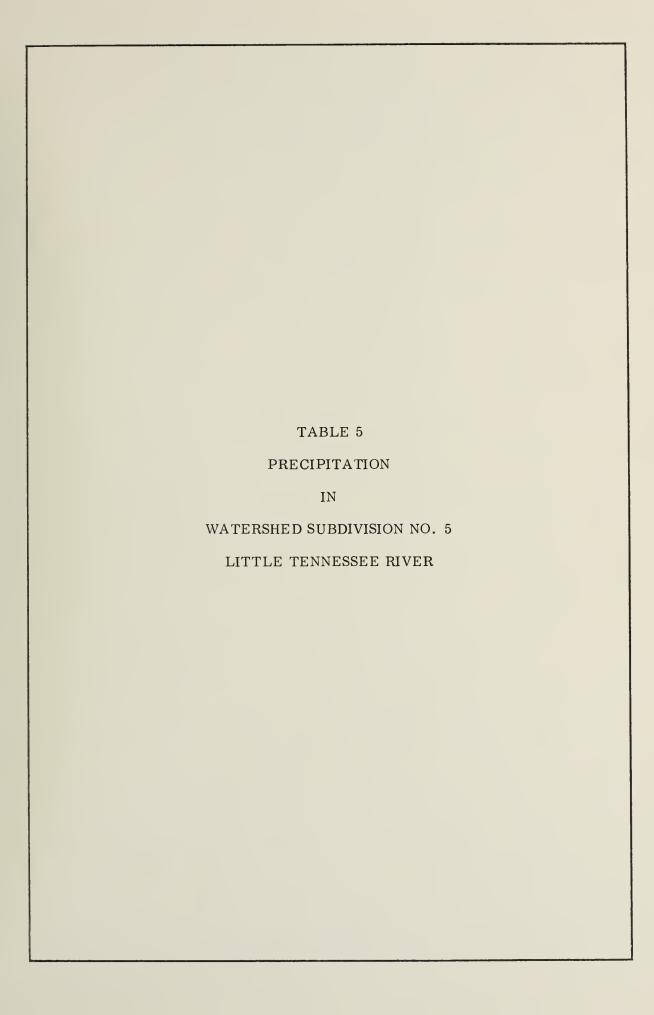






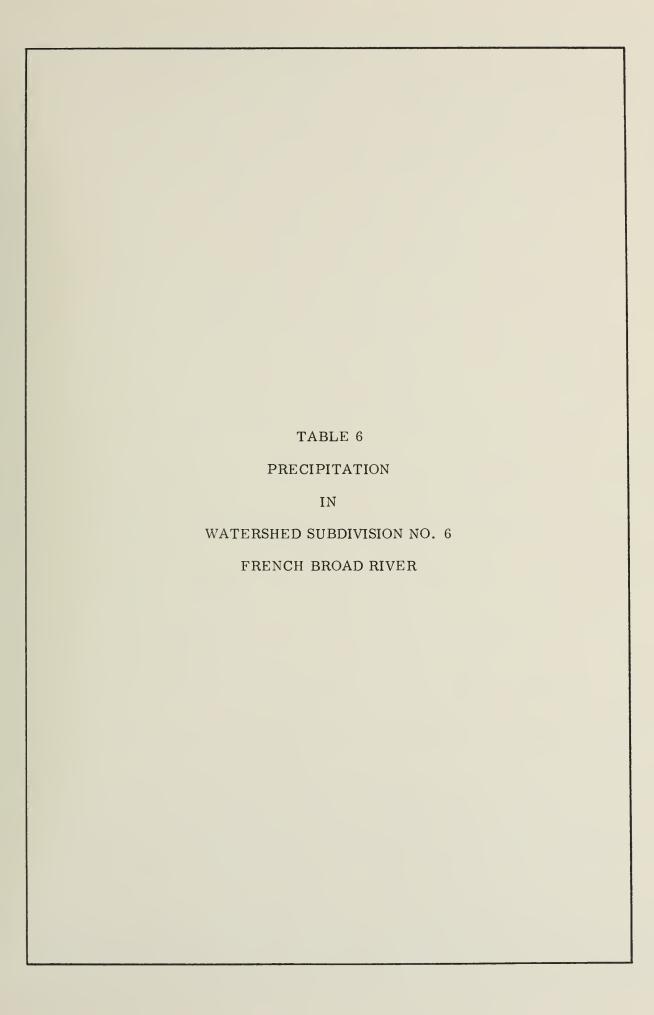
																								t punch	Olgital punch	(0P)	sent	Recorder at present		(R)	
	77,19 53,97	91.20	6.54	7.43	5 5.55	10.95	3.87	2.10	5.78	5.60	5.69	13.22	7.71	7.54	3.86	6.23	5.41	8.45 4.60	6.62	5.60	5.03	4.30	0.70	6.32	7.17	5.40	35	3900	TVA	11	44
20.5	66.38 61.78 64.00			# 5.14 6.71 6.49		3, 52	1	2.70 3.15 2.99	4.06	3.25 6.36 6.16		9.55	7.14 5.85 5.74	6.60	5.21	8.61 7.64 7.00	4.04	3.92 7.06 A.40	5.63	4.73 7.22 6.94	0.67	4.43	5.75	8.81	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.17 6.04 6.22	35	3800 2260 2190	TVA	111	444
10.11	54.17 56.34 61.23			5.89]	3.25 4.34 4.73		2.08	3.88	4.50	5.72	8.28 9.32 # 9.17	0000	6.05 4.33	3.97	5.56 7.23	3.99	3.80	5.75 5.32 5.81	3.87 4.50 5.13	5.3 5.98 7.4.	3.40	5.72 5.96 5.79	7.13 6.56 8.07	4.0.0.0 0.0.0.0 0.0.0.0	4.88 4.78 5.54	14 27 11	1960 1955 2050	TVA TVA USW8	111	227
6.0	\$1.06 62.30 49.29	54.58	4 4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.87	3,29	3,64		2.24	3.37	3.03	5.77	11.43	5.03	3.64	4 ° 5 4 4 ° 5 4 4 ° 5 4 4 6 9 8 4 6 9 8 4 6 9 8 6 9 8 6 9 8 6 9 9 8 6 9 9 8 6 9 9 9 9	6.41 5.91 9.71	E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,75	4.43 4.93 7.83	3.62 5.63 9.37	5.43	4.51 3.82 3.90	8 8 4 6 8 8 9 4	6.20 5.12 7.26	4 8 4 6 6 6 6 6 6 6 6 6	4.43 5.58 4.37	322	1920 4760 1670	TVA TVA NPCD	111	111
12.0	73.61 62.02 67.94			7.57 5.14 6.99		3,83		3.15 1.89 # 2.24		5. 83 3. 22 4. 32		6.92 6.53 5.66	7.11	4.62 2.65 # 3.08	9.00	7.44	5.30	3.55	5.99	6.01 6.17 7.35	7.85	4.19 3.86 5.46	40.0	9.24	7.99	6.19	35 61 32	2450 1840 4750	TVA USH8 TVA	111	111
4.3	69.51 55.87 58.89			4.37		0.10 2.53 2.13	1	2.04	3.25	4.86 4.84 3.71		15.93 8.09 4.22	7.13 5.69 6.40	3.50 5.01 4.80	5.00 4.36 4.63	9.76 4.93 6.23	3.92	5.96 2.16 2.83	5.04	5.22	7.09	3,93	5.86	5.91 6.93 6.56	6.38 5.61 6.03	4.67	34	3300 1550 1575	7VA 1VA 1VA	101	4.04
7.0 15.0 13.7	54.88 59.53	59.96 51.15 65.08		4.83 5.00 6.21	3.68	2.70 4.26 5.10	1	1.67	3.24	4.37 3.68 3.34	4.40	12.28 7.69 10.75	5.81	0.87 2.43 3.12	4.32	5.63 5.13 9.91	3.93	3.56	5.11 4.85 5.28	3.97	5.91 5.88 6.74	4.04 4.35 4.48	5.40 8.80 8.83	5.52 5.14 6.00	5.13 5.07 5.61	4.22 3.93 4.15	35 37 27	2100 1825 1900	TVA TVA	444	
3,3	\$7.66 \$4.03 \$3.63	55.74 52.55	5.24 4.91 4.30	5.19 5.51 3.92	3.80	2.67 3.14 2.08		1.50	3.52 3.33 3.73	5.01 5.17 6.40	4.35 4.22 4.75	7.14 6.61 7.85	5.19	6.34 5.68 4.30	4.38 4.05 4.13	3,67 3,78 5,58	3.80	2.72 # 3.81 1.87	5.04	5.18 4.87 3.89	5.8.5 5.8.4 5.8.4	3.50	6.03 5.55 5.17	7.58 6.92 5.73	5.59 5.41 4.38	9.25 4.98 4.30	32 35 14	1840 1795 1920	TVA TVA	6.4.4	
17.0	54.87			5.66 6.50 5.42		3.39		1.08	3.14	4.88 2.98 3.75		6.30 4.83 7.79	5.45	4.10 6.60 5.67	5.18	3,72 5,85 4,22	3.85	2.72	5.59	5.20	7.00	4.38 4.40 3.50	5.71 6.57	7.76	\$. 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 .	4,93 5,58 5,08	30	1310 1880 1760	7 V A A V T V A V T V A V	200 E	25.0
12.4	55.21 58.30 54.75	# 46,25 58,68 51,98	4.99 5.17 4.86	5.33 5.25 5.71	3.96	2.49	2.84 3.08 2.93	1.85	3.64	# 3.60 4.20 3.40	3.91	3.38 8.42 6.10	5.27 5.27 5.45	3.71 6.70 5.54	4.59	4.73	3.98	2.29 3.42 2.57	4.3.0 0.3.0 7.00 4.00	3.76 4.82 4.54	6.00	4.17	5.70 6.11 5.73	5.98	5.63 5.91 5.41	5.26 5.86 4.93	35	1600	TVA TVA	E-3 -5-5	202
21.5	97.94 77.41 96.22	# 62.43 82.00 90.11	7.26	7.10 8.09 4.91	4.06 9.79 4.29	4.60 6.35 2.52	3.28	1.70 2.38 1.40	3.78	3.70	4.00	11.30 12.08 6.93	5.88 7.15 5.67	3.96	4.11 5.09 4.37	6.13 6.97 5.65	4.09 9.91 4.12	4.10 7.21 1.02	1.04	# 5,40 8.64 3.42	5.76 8.17 6.24	4.10 5.59 4.66	6.22 7.71 5.74	5.80 8.15 6.11	5.09	4.20 9.92 3.54	17 35 35	21 20 2 8 0 0 1 6 5 0	TVA TVA TVA	115	
12.5	62.19 60.82 49.29		1	9.83 4.90 4.30	0	3.28		2.57 1.67 0.90	3.58	9.48 9.64 4.40	4.98	8.32 11.32 9.80	5.70	5.54 2.89 1.80	4.64	3.26	4.54	4.84 4.14 3.30	5.62 5.61 5.57	4.51	5.00	3.98	6.27	7.15	6.18 5.90 0.0	4.49	35 26 26	1975 1900 1860	TVA TVA	111	TP F
7.0	86.03 54.87 61.39			9.38	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4.06 2.33 3.23	2.90	2.18	3.26	8.16 6.17 7.46	5.73	9.19	7.78 5.83 5.48	6.12 2.07 3.18	6.21 4.68 4.31	5.02 4.56 5.15	5.61	A.63 2.72 3.89	7.59	7.95	9.17 6.61 6.71	4.84	0.00	11.08 9.30 5.84	9.61	8.30 5.20 4.89	35 35	3650 1760 2520	TVA USWB TVA	111	
12.3	57.45 55.88 53.79	8 58.61 52.87 8 56.40	5.14 5.14 5.47	8 5.23 6.14 7.20		2.90	3.27	# 1.64 1.18 0.90	3.71	3.51 6.38 5.30		9,39 6,59 70	9.34 5.83 4.47	8.06 2.97 3.00	4.24	3.84	3.59	3.91 2.53 2.80	9.09	4.90	6.09 6.18	3.74	5.82	5.92	9.89	5.03	35 28 28	3300 1624 1890	7VA US#8 TVA	211	T.T.T.
11.5	93.24 50.64 93.37	49.56	4.57	4:45		2.45		1.34	3.33	3.91	4.16 4.20 4.13	5.53 4.41 7.19	8.8 9.8 9.8 9.8	3.45	3.84	4.16 3.58 4.17	3.98	2.02	4.59	5.11 5.76 4.48	5.61	3.74 3.14 4.92	5.36	6.42 5.71 6.15	5.34	5.82 4.81 5.32	4.5 26 55	750	TVA USW8 TVA	22.5	T. T.
00.	\$1.59 \$0.90 \$0.68	4 4.05 50.01 8 49.00	5.22 4.43 4.34	7.92	4.45	2,39	2.62	1.07 2.25 1.16	3.80	4.54 4.85 2.95	3.82	6.04 7.97 6.08	40.4	3.73 3.67 3.30	3.85	4.38 4.55 7.06	3.98	1.10	4.53	2.88 3.10	90.0	4.01 3.12 3.74	4.64 5.11 5.29	5.97 6.64 5.67	4,42 5,25 5,61	4.72 4.30 3.64	12 26 26	910	TVA TVA	E-3 6-3	
11.0	52.81 57.80 50.27	57.82 8 53.86 49.38	9.01 9.14 4.60	9.93		2.60 2.61 2.37	2.99	1.66	3.24	6.18 5.00 4.24	5.20	6.42 6.68 7.60	4.90	3.21	3.62	3,98 4.09 4,23	3.63	1.57	4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4,18 3,82 3,04	5.71 7.11 5.64	3.38	5.35 4.45 5.00	6.16 6.20 5.34	5.63	7.64 5.34 5.24	77 8 8 20	700 920 820	TVA USW8 TVA	6-3 6-3	
9.3 12.2 15.5	51.81 51.90 52.25	56.00 51.84 49.89		11.45	4.12 4.12 4.22	2.98 2.36 2.19	2.82	1.37	3.43	6.26 4.64 A.65	3.67	5.89 4.93 5.50	5.09	1.93	3.72	2.35 3.90 3.91	3.48	3.69	444 65.50 8.60 8.60	3.95	6.7.8	3.11	5.29	5.67	5.39	7.25 6.13 6.15	30	740 850 795	TVA TVA USW8	6.3 6.3	
(Inches)	- LON	ISTO I	lotal Nor I	IoTal	IOTAI Nor I	IOT I	lotal Nor I	lotal	iotal Nor	10121	TOTAL NOT	101	- LON INC.		TOU TOU				- LON INC.								200	LIGA.	Dalle.	Index Owner	HIMASSEE RIVER-SUBOLVISION ND. 4
Snow		YEAR	DECEMBER	DECE	NOVEMBER	NOV	OCTOBER	00.1	SEPTEMBER	SEPTE	AUGUST	AUC	ייייי		JUNE	3 ;	: ≿ :	MAY	APRIL	dV ,	MARCH	MA	UARY	FEBRUARY	ARY	JANUARY	Yrs. of				













3.05

38.5

ANNUAL 1969 PRECIPITATION - In Inches

FENNESSEE VALLEY AUTHORITY

DIVISION OF WATER CONTROL PLANNING

(Inches)

Total Nor'l

YEAR

9.3 12,3

4 62.26 42.39 90.41

16.3 17.0

43.57 42.30 41.15

21.5 35.0

39.49 48.02 47.52 41.84

19.5 26.0 25.0

96.8

40 .7 57 .2 56 .9

35 . 3

52.77

43.0 43.9 52.5

38.44 59.50

22.0

\$8.76 49.71 46.60

55.54 48.73 58.92 43.54

52.7 60.0 20.0 16.1

54.24 48.60 49.61 46.09 55.84 48.08 47.63 53,35 50,04 62,60 45.92

61.94 55.26 54.33 42.30 70.9

35.6

41.21 39.83 37.64

45.0

66.74 68.20 49.10

13.5 62.6

76.09

40.51 54.68 44.81

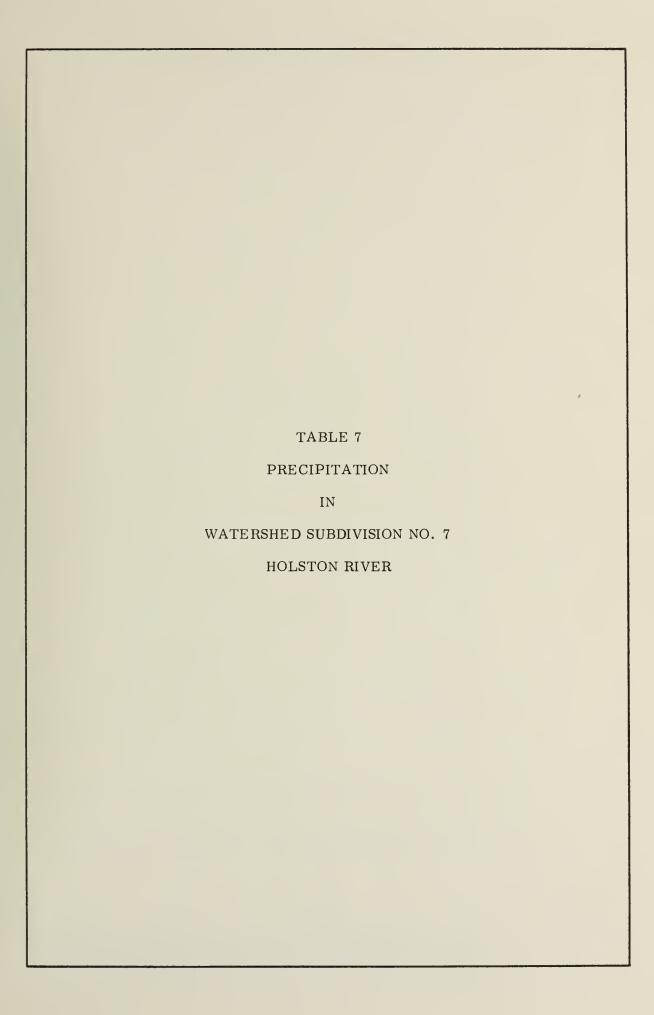
40.0

37.5 40.0 40.0 35.9

34.97

2.50 Total Nor'l 4.00 9.34 1.44 1.44 1.44 3.47 3.0.6 3.24 30.00 3.10 3.43 3.91 3.77 20.22 2.99 3.00 3.00 2.79 3.12 3.44 DECEMBER 4.33 6.04 4.93 4.27 3.68 3.54 3.94 3.62 3.99 4.31 5.06 5.12 Total Nor'! NOVEMBER 2000 3.26 3.02 3.46 2.53 4.000 3.57 3.20 3.07 3.34 2.88 22.33 3.48 2.61 2.50 2.29 3.74 3.67 3.21 3.31 2.29 2.54 2.61 3.76 1.58 1.53 2.31 2.68 Total Nor'! 2.29 3.12 3.69 3.57 3.31 2.50 2.95 2.93 2.85 2.54 3.13 2.40 3.34 3.12 2.19 2.57 3.17 3.91 3.16 2.33 2.51 2.34 3.14 3.45 3.41 5.12 OCTOBER 5.22 4.13 4.41 5.28 4.70 2.73 3.13 2.93 2.18 2.11 1.69 1.63 1.78 1.97 1.56 2.33 2.36 6.13 1.56 1.64 2.56 1.81 SEPTEMBER Total Nor 't 2.63 3.18 3.32 3.01 4.05 3.56 2000 3.30 3.13 3.22 2.73 3.30 3.22 99.8 3.29 2.52 2.36 3.62 3.53 30.0 2.09 3.03 2.69 19.67 5.26 4.00 3.61 3.98 3.13 3.31 2.56 3.06 5.09 2.62 3.39 6.15 4.72 6.03 3.04 4.04 5.46 3.55 7.86 4.53 3.95 2.50 2.59 3.03 2.75 Total Nor 'I 4.33 4.90 3.79 3.59 3.63 10.4 10.4 10.4 10.4 3.49 3.29 3.53 4.89 5.15 4.76 3.96 200.7 5.18 5.08 4.90 5.38 5.18 3.59 7.11 5.43 4.49 5.13 AUGUST 2.61 5.40 2.49 5.69 2.43 4.30 3,29 5.58 3.53 3.77 4,53 2,51 2,55 3.13 4.11 2.93 5.90 6.51 7.42 3.78 5.20 5.20 3.40 4,15 3,43 3,78 3,38 7.16 3.31 4.002 5.00 5.28 5.00 5.11 5.02 9 0 0 9 6.13 46.00 5.22 4.96 0.00 5.64 3.92 4.68 4.59 6.18 4.25 4.36 5.65 5.41 5.89 4.72 2004 Total Nor JULY 5.97 3.4.6 7.61 5.51 3.45 2.81 4.59 3.40 2.56 7.96 6.82 4.58 4.28 5.03 4.24 3.12 Nor 1 9.00 3.97 4.40 4.00 3.15 3.78 3.84 4.90 3.94 3.43 3.17 3.79 5.18 4.64 4.56 4.97 3.52 .906 3.65 9.69 3.93 5.95 4.34 3.00 3.82 JUNE Total 7.75 3.93 5.05 4.51 7.82 6.65 4.36 2.83 2.81 7.25 8.22 4.17 5.76 Nor 1 3.81 3.35 10.0 3.52 3.47 3.00 3.98 3.94 1.57 3.20 3.99 3.34 3.73 3.60 1.0.0 3.62 3.51 3.06 3.37 3.39 3.37 3.92 3.63 3.33 2.96 2.07 3.32 ٨¥ Total 3.53 2.13 2.90 1.91 2.36 2.58 3.70 3.52 2.92 1.57 1.60 1.21 3.33 2.03 3.22 1.38 1.57 1.23 2.36 2.76 2.11 2.25 3.16 2.03 2.34 2.71 2.60 Nor. 3.53 3.69 3.64 3.15 4 . 3 B 3.30 3.80 3.96 5.77 3.33 4.84 3.50 3.20 3.19 3.76 3.76 3.96 3.56 3.25 3.43 5.00 5.04 9.61 4.22 3.78 3.04 3.21 APRIL Total 5,15 3.38 2.43 3.82 2.63 3.52 5.47 3.35 5.58 5.00 3.46 3.74 4.65 2.96 2.88 4.45 2.53 2.46 2.68 2.37 3.63 6.13 3.08 3.58 3.40 3.22 3.17 2.59 3.24 6.9 2.07 3.23 2.51 4.54 Nor. 4.90 4.36 4.65 4.97 4.64 5.23 4.85 5.34 5.54 9.28 4.57 5.62 5.53 5.10 3.97 4.18 5.43 7.19 5.13 5.23 3.84 3.91 3.74 5.50 MARCH Total 4.42 8 4.30 3.80 3.45 3.90 6.68 4.13 5.42 5.11 2.57 3.50 3.20 3.45 4.28 4.987 3.61 5.49 4.61 3.63 4.99 4.11 5.07 4.45 3.90 5.18 3.56 3.71 5.00 3.75 4.70 4.09 4.00 3.22 4.25 5.25 Total Nor" FEBRUARY 3.74 5.10 4.69 3,04 4.56 5.61 3.78 3.88 0000 644 3.94 4.04 3.69 4.38 3.62 4.32 3.06 3.53 3.69 3.69 0.00.4 3 . 4 8 3.17 4 4 3 8 3 4 3 4 3 4 3 4 3 4.09 3.89 6.19 5.70 5.12 4.34 3.72 4.99 4.53 5.37 5.29 5.81 4.30 9.31 9.81 4.82 4.20 4.57 4.26 6.19 4.11 4.28 5.05 8.76 3.44 5.86 4.31 4.58 5.33 5.58 5.26 4.69 4.40 5.43 4.09 3,73 4.07 5.51 Total Nor'l 90.4 3.08 3.76 3.62 3.40 3.63 3.85 4.54 40.0 3.78 3.80 4.02 4.86 3.87 3.11 5.62 3,28 3.10 3.17 3.6.6 JANUARY 4.25 3.77 3.58 3.65 3.66 3.22 2.55 2.68 5.55 1.21 3.27 2.27 2.88 2.13 2.32 3.12 3.15 3.25 2.43 3.22 2.31 2.30 2.26 2.51 4.39 2.44 2.23 2.13 2.72 4.24 3.20 3.15 2.39 1.96 2.30 1.74 1.87 3.57 Yrs. of Record 500 14 113 17 35 33.5 337 17 13 52 338 332 327 35 238 33 233 7 32 523 323 300 1533 933 132 332 138 448 200 Elev 930 1350 1460 6350 958 1080 1175 1320 2750 2700 6620 2765 2875 3560 2825 2860 2860 3680 1720 1260 1440 2830 2590 4800 2720 4300 2640 2700 2600 3060 3120 5400 1200 1335 1480 4285 3790 2040 22220 2170 2030 22374 2274 2675 Owner TVA USKB TVA USK TVA TVA TVA USK8 TVAU TVA TVA TVA TVA TVA TVA TVA USWB TVA USOI TVA TVA TVA TVA TVA TVA TVA TVA USKB USKB TVA TVA TVA TVA TVA TVA TVA TVA TVA 4 > 7 Y A > 7 Y A > 7 TVA TVA TVA T V A V T AVT A V V A V A 7 × × × > > > > > Index 222 777 111 F.53 F-2 200 777 777 200 500 000 000 500 000 THE 111 555 500 000 000 000 000 000 000 0000 500 000 5000 FRENCH BROAD RIVER-SUBOIVISION NO. NO. 1 R ES Station Name and Location NEAR CLYDE R ES CHAMBERS MOUNTAIN R ES WAYNESVILLE WATERSHEO NO. HOT SPRINGS AIRMAYS Z ES MAX PATCH MOUNTAIN R ES MAPLE SPRING GAP ES SNOW CREEK ES SPRUCE PINE ES LITTLE SWITZERLAND R ES MT RISCAM & ES BIG EAST FORK, RADIO ES SUNBURST, RADIO ES MT STERLING ES CATALOOCHEE ES CATALOOCHEE RANCH Z ES MAYNESVILLE X ES MAYNESVILLE WATERSHED ! EAGLENEST MOUNTAIN ES NOLICNUCKY OAM GREENEVILLE, NEAR X ES CAMR CREEK BALO R ES COXCOMB MOUNTAIN R CLINCHANS PEAK OP ES POPLAR ES FLAT TOP MOUNTAIN ES CANE RIVER ES DAYBOOK ES ROAN NIGH KNOB R ES BAKERSVILLE ES PITTMAN CENTER R ES RICEON FORGE ES CATLINBURG, NEAR ES GILLESPIE GAP X ES ALTAPASS ES PLUMTREE ERWIN ES UNICOL X ES LIMESTONE COVE ES TUG FORK ES COOY STORE ES SAMS GAP, RADIO ES SEVIERVILLE ES SEVIERVILLE XX ES JONES COVE ES HAYMOOD GAP R ES WOLF CREEK ES HOT SPRINGS ES CELO, NEAR ES MT MITCHELL R ES VEAVERVILLE ES LEICESTER ES PARKER BRANCH R ES LICK CREEK R ES JEAROLOSTOWN ES LITTLE CNUCKY ES COS6Y NO. 4 ES MARTFORO ES MATERVILLE XX ES ASHEVILLE ES ASHEVILLE R XX ES BEETREE OAM ES OANORIDGE ES WHITE PINE R ES BULLS GAP ES MARSHALL ES IVY ES BARNAROSVILLE ES GRAGGY KNOB R ES SWANNANDA, NEAR ES LIMESTONE ES CENTERSVILLE ES EMBREEVILLE ES GATLINBURG R ES NT LE CONTE ES ODUGLAS OAM SMOKY GAP ES NEWPORT ES NEWRORT ES CANTON ES CANTON XX ES OIX CREEK ES Sta. No. 642A 754 399A 496 209 209A 210 593 232 622 2334 238 241 2414 254 629A 742 256A 257 719 212 661 217 218 730 223 231 234 623 235 236 235 237 338 247 247A 248 837 250 250A 251A 251 253 190 261A 259 672 262 263 264 265 2678 267 2684 268 2698 270 215 221 753 643 227 228 733 245

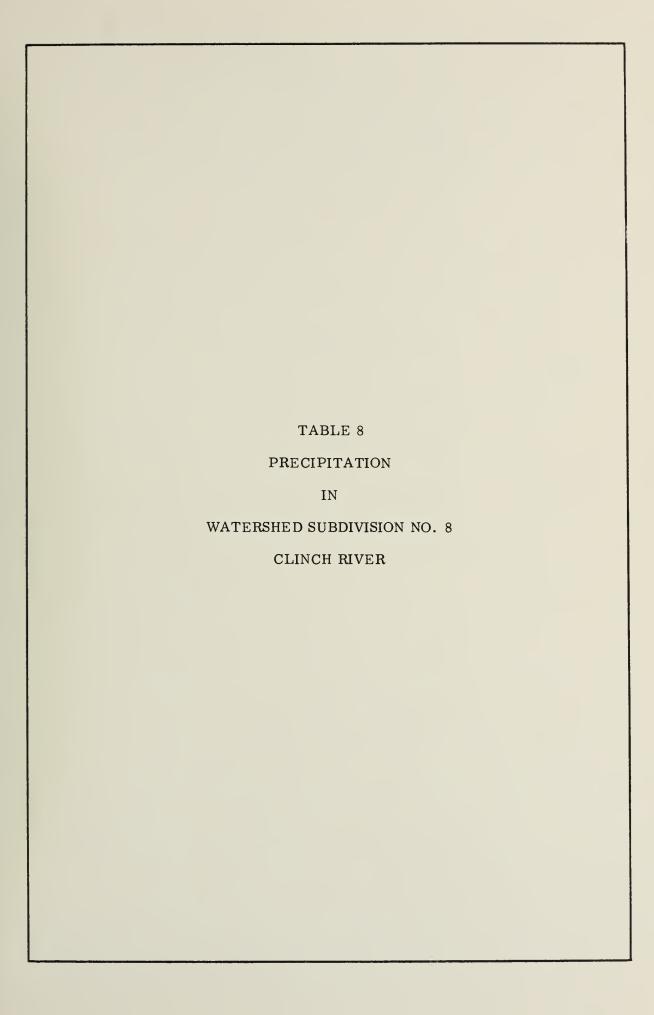
Snow (Inches)	(illelles)	39.0	39.0	49.5	40.5	41.7	45.6		37.2	44.5										
-		50.94 57.01 48.92	39.99 42.19 45.88	47.04	54.66 56.12 56.12	70.70	52.65 77.58 79.56	75.07	63.49	80.68 73.83 85.88										
YEAR Total No		45.75 59.15 54.57	44.08	48.61 48.25 55.64	# 60.17 62.25 # 68.29	1			71.52 # 87.07 82.55	98.63 88.13 115.10			1							
DECEMBER Total Not"		3.34	2.90	3.39	4.22 4.72 4.72	5.94	5.86	7.19 5.39 6.33	5.63	6.64										
		5.39	4.62 3.79 4.53	4.63 3.69 6.16	# 5.80 5.23 6.72	6.69 8.25 5.24	4.90 8.12 8.67	8.32 6.51 8.34	7.78 9.84 8.92	7,46										
NOVEMBER Tatal Nor"			2.59	2.86	3.45	1		5.21 4.39 5.17		6.12 5.68 6.56										
			3,54		3.93			8.72 6.72 7.78		8.08 7.50 12.40										
OCTOBER Total Nor!			2.57 2.70 2.80 2.64 2.67 3.29			3.69 5.36 5.42 5.35 2.62 4.24				4.32 5.67 4.25 5.20 5.70 6.50				Ì						
	1																			
SEPTEMBER Total Nor'l			2.34 2.81 3.85 3.11 2.55 3.28			8.23 5.22 5.11 5.42 4.10 3.93			5.40 4. 8.80 5.	1.94 6.34 7.94 5.62 9.87 6.85					1				4	
			4.09			4.84				7.59 1										
AUGUST Total Nor'l			6.78 5.33 6.54			16.94		12	10.81	13.50					1	1				
JULY Total Nor 1		5.80 4.80 4.85	4.89			5.94		7.55 6.53 7.21	8.09	7.29										
		2.43	5.07	7.53	3.72 4.51 4.82	5.34 6.31 7.83	2.72 7.00 # 6.76	8.20 6.97 8.74	7.39	5.16 3.62 3.61										
JUNE Total Nor1		1	3.42			5.65				3 7.20 5.37 5 7.40										
	1	5.65	5.02	3.82	5.61 9.20 9.65			7.62	# 9.98 9.93	9.33 8.54 8.14.75										
MAY Total Nor 1		22 3-78 43 3-96 39 3-51		32 93 3.48 64 3.82		4.31 4.89 4.21 4.68 4.26 3.82				8.82 6.00 7.20 4.64 8.25 5.93										
	In .					5.87 6.07 4.93				6.23 7.70 8										
APRIL Total Nor'l		- 1	2.54 3 3.11 3					10.15 5.08 6.42 6											1 3	
CH.		5.10	3.91	4.61 5.44	5.11	7.06		7.22	7.59	8.19					1					
MARCH Total Nor		4.56	4.16	4.01	6.44 6.94 5.33	5.67	5.87	5.88 4.73 5.07	5.17	5.42 5.00 5.21										
FEBRUARY Total Nor'I			3.49	3.81	4.58			5.45	5.55	6.83 8.15 8.15				1	-					
			4.72	5.08	5.73	6.70 7.00 5.16	*	8.47 5.98 7.73	7.01	9.21	Digital punch									
JANUARY Total Nor'l		1	28 3.19 09 3.43 72 3.75	20 3.70 78 4.44	30 4.32 31 4.76 81 4.76	i l		96 6.74 34 5.23 35 6.52	03 5.75 111 6.76 68	18 6.17 65 6.20 57 6.55	(DP) Die									
		3.16	3.09	2.06	3.30			5 5.34	5.03	6.18 5.65 7.57										
Yrs. of	1		30 30 36 10 36			50 35 10 10				28 24 26 24 26	Recorder at present									
ner Elev.]							18 3115 18 2150 3120			Recorder									
Index Owner	ND. 6 CONTINUED					G-3 TVA G-3 TVA G-3 NC				G-3 7VA G-3 TVA G-3 USNE	(R)									
	8										olated									
Station Name and Location	FRENCH BROAD RIVER-SUBDIVISION	NDRTH FORK NO. 2 ES NORTH FORK R ES BLACK HOUNTAIN X ES	ENKA ES ROCKYFACE MOUNTAIN ES BENT CREEK X ES	ASHEVILLE AIRPORT R XX ES A & H AIRPORT ES GARREN CREEK ES	BLUE RIDGE POST DFFICE R HENDERSONVILLE X ES HENDERSONVILLE ES	RUSH MOUNTAIN ES PINK BEDS R ES FLETCHER, NEAR X ES	MILLS MIVER R ES BUCK FOREST ES CEDAR MOUNTAIN R ES	CAESARS HEAD X ES PISGAH FOREST ES GLOUCESTER GAP R ES	BREVARD X ES ROSMAN ND. 2 ES ROSMAN R ES	SASSAFRAS MOUNTAIN ES OUEBEC R ES LAKE TOXANAY ES	Interpolated or partly interpolated									
		_									Interpo									
Sta. No.		271 271 700	274 266 275	791 2768 277	278 279 279A	280 282 766A	281C 283A 283	284 476 662	285 286 2868	640 663A 723	•									





TE	TENNESSEE VALLEY AUTHORITY	ORITY		,						1				יוב כוו ויצווסוי	=	1110111						DIVIS	SION	JE WAT	DIVISION OF WATER CONTROL	NTROL		PLANNING
22	Sta. Station Name			Yrs. of		JANUARY	FEB	FEBRUARY	MARCH	H.	APRIL		MAY	JUNE		יחרא	AUGUST		SEPTEMBER		OCTOBER	NOV	NOVEMBER	DECEMBER	ABER	YEAR		Depth of Snow
ž	o. and Location	Index Dwner	Elev.	Record		Total Nor'l		Total Nor'I	Total	Nor.i	Total Nor"I	- 1	otal Nor'l	Total Nor"		Total Nor'I	Total Nor'l	Nor'I	Total Nor'l		Total Nor'l		Total Nor"!	Total	Nor 'I	Total	Nor'l (In	(Inches)
200		F-2 F-2 TVA F-2 TVA	970 980 1012	33.5	3.38 3.98 3.07	4.49	7.59	4.98 4.88	2.34 8 2.62 2.08	4.65	2.71	6.00 4.00 8.00 8.00 8.00 8.00 8.00 8.00 8	1.24 3.52 2.08 3.57 1.20 3.59	5.76 3. 4.51 3. 5.37 3.	3.53 3.69 3.42 3.13	3 4.37	3.58 8 3.03 2.15	3.55		93 1.45 36 # 1.74		3.06	999	8 - 16 8 - 13 7 - 98	11.10	43.42 4.5.51 4.5.74		0.00
346	9 JEFFERSON CITY EVAP STA X ES O MOBRISTONN NEAR ES FLAT GAP ES	F-2 TVA F-2 TVA	1200 1325 2000		3,35 3,33 3,33	4.41	5.29 5.44 6.11	4.85	2,58 2,36 2,06	4.68 5.03 5.06	2,32 2,51 1,91		1.88 3.70 2.49 3.52 2.64 3.76	5.03 3. 4.93 3. 7.08 3.	3.37 4.44 3.76 3.93 3.85 6.91		2.54	3.44	2.32 2.94 1.39 2.91 1.81 2.66	1.60	50 2.23 76 2.41 99 2.43	2,88 3,13 3,61	3.62	7.63	4.15 4.15	41.88 4 40.58 4	45.38	23.3
727	1 ROCERSYILLE X ES JOHN SEVIEW STEAM PLANT R 7 LITTLE WAR GAP ES	G-2 USW8 G-2 TVA F-2 TVA	1375 1120 1980		2.04		5.20 5.30 4.94	4,31 4,43 4,31	0.69 2.29 1.86	0000			2.96 3.95 2.01 3.45 1.32 3.41			55 4.80 79 4.47	2.69	3.49		•			3.22	7.56 7.28 7.37	3.01			21.1
916 794 315	STANLEY KNOBS R ES OWEN CORNER R ES M MEMOOTA ES		1330 1339 1350		2.27 # 2.33 2.33	3.90	5.07 5.36 5.15	4.09	# 1.82 1.98 1.82	4.48	2.00 3				3.53 3.8 3.75 3.6		2.44	3,35	2.49 2. 1.78 2.17 2.	••			3.06	7.09	3.56	30.68 4 42.28 39.11 4		32.1
316	HOLSTON ES 6 SALTVILLE ES 8A SALTVILLE ES	G-2 TVA H-2 USW8 H-2 TVA	22 90 1720 1725	38	2.03	3.000	5,36 4,80 4,76	3.76	2.45 2.05 1.78	4.21	3, 42 3	3.30	3.76 3.66 2.11 4.18 1.74 4.10	5.57 3. 3.18 3.	3.61 3.98 3.80 3.14 3.61 2.91	l v	4.40	3.56	1.70 2.58 2.72 2.92 3.51 3.00	18 1.96 92 1.31 00 1.36	96 2.47 31 2.33 36 2.12	2.40	2.04	5.97 6.32 5.66	3.24	42.91 4 38.18 4 35.61 4	41.79	34.0
320 293A 293	O BURKES GARDEN X ES 34 KINGSPORT TEC ES 3 KINGSPORT ES		3075 1200 1270		2.50	3.90	3.80 5.42 6.17	3,62	2.07	4.41	2.82 1.87 1.91		1.67 3.94 1.70 3.29 1.73 3.54			00 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.25	3.29					2.09	5.27 6.57 6.98	3.74			71.5
376 688A	SOUNE DAM ES 6 BRISTOL AIRPORT, TENN R XX ES 6A MONTH BRISTOL SUBSTA		1334	19 32 22	2,34 2,72 3.02	3.52	6.08 9.72 5.28	3.80	2.43 2.14 2.44	4.31 3.98 4.15	2.20 2.11 2.88		2.32 3.26 2.06 3.45 3.00 3.89	5.40 3. 5.24 3. 5.39 3.	3.38 5.10 3.38 8.18 3.85 6.74		2.06 2.11 2.91	3.87	4.39 2.76 4.31 2.62 3.75 2.63	76 1.61 52 1.54 53 2.17	54 2.15 54 2.15 17 2.34	1.96 1.86 2.77	3.10 2.51 2.83	5.58 5.78 6.17	3.54	42.29 4	41.42	25.5 36.1 37.2
300			1865		# 2.66 2.51 2.28		8 5,37 9,23 9,45	3.64	8 2.67 2.70 2.63	4.86 #	2.30 3.20 2.76						3.29	3.66	2.00 2.73 5.51 3.07				2.77	5.95	3,25	39.49 4		30.0
6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH HOLSTON DAM CRANDULL ES A 881NGDON R ES		1535 2790 2030	35 35 26 28	2,40 3,39 2,48		5.37 7.43 5.00	3.93	2.87 4.34 2.83	4.18	2.66		2.93 4.03 2.84 4.52 2.30 3.97	4.96 3. 4.89 4. 2.71 3.	.89 5.43 32 5.67 32 3.99		3.78 4.11 2.55	4.93	3.67 2. 1.86 3. 3.07 2.			3.20	3.60	5.22	3.40	45.01 4 50.55 5		27.0
312	S CHILHOWIE ES 2ª MARIOM EVAP STA ES 2 MARIOM ES		2000		2.19 2.16 2.06	3.38	5.76 4.98 4.13	3.24	3,35 2,45 3,02	4.19 3.87 3.80					2.93 3.6 3.24 3.93 3.68 6.3		4°°64 4°°83 4°°00	3.73			1.08 2.92 1.36 2.84 1.20 2.33			5.65 5.02 5.08	3.25 3.36 2.88			44.6
619	3 GROSECLOSE ES 34 GROSECLOSE R ES 3 WYTHEVILLE ES		2570 2550 2400	27 20 94	1.99	9 3.34 5 3.34 2 2.79	3.65	3.55	2.90 3.31 2.58	3.66 4.11 3.38				4,92 3, 5,30 3, 3,48 3,			5.12 4.56 2.50	4.10 3.64 3.88	2.99 3. 2.99 3. 2.95 2.			1.80		5.54	2.93	43.05 4	40.23 41.60 36.66	55.5
309 732 010	2 KONNAMOCK, RADIO ES C LOVES MILL ES	H-2 USW6 H-2 TVA H-2 TVA	1930 3100 2060	£ 27 E	1.84 1.80 2.54	3.93	9.22 9.70 4.75	3.91	3.03 3.10 3.18	4.30 4.73 3.86		3.59 4.16 3.42	3.68 4.23 2.20 3.27 1.90 4.47		4.12 6.12 3.51 2.40 3.76 # 4.53	12 5.96 10 4.18 13 5.05	2.27 2.80 3.41	3.98	2.01 2. 2.20 2. 1.28 2.	2.90 1. 2.75 2. 2.76 1.	1.85 2.34 2.00 2.71 1.25 2.40		2.95	5.06 3.80 5.41	3.28	39.16 4 35.30 4 38.37 4	45.80 43.36 42.70	35.3
294			3110 1750 1600	22 33	2.48	3.67	3,44	3.95	3.74 2.51 3.07	4.34	4.04 2.32 3.44			5.24 4. 6.72 3. 6.41 3.			4.25 1.81 8 1.75	4.57 3.52 4.18	3.71 3. 3.20 2.		3.19 3.06 1.42 2.33 2.11 2.32			4.74 8 5.59 4.29		49.93 5 # 40.16 4 # 42.93 4		40.5 24.0 13.7
416 299 229	S ELIZABETHTON NO. 2 ES STORE PAUS STAL ES STORE MOUNTAIN ES	S G-2 TVA G-2 TVA G-2 TVA	1730 1512 2590	352 35	2.52 2.22 2.53	3.91	6.02 9.09 4.91	4.10 3.62 4.20	3.08 2.93 3.52	4.51		3.33	2.51 3.95 1.86 3.55 1.21 3.68		3.90 4.32 3.82 4.55 4.17 7.90	32 5.49 35 5.29 00 6.19	# 1.99 2.16 3.79	3.93	3.66 2. 3.43 2. 2.67 3.	2.69 1. 2.80 1. 3.08 2.	1.38 2.45 1.52 2.44 2.01 2.41	1.86	2.94	4.63	3.16	42.18 4 37.99 4 43.08 4	45.14 42.25 47.10	12.7 22.9 43.0
910			2570 2990 2010	11 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2.22 3.10 8 2.67	3.56	4.23 6.30 # 4.86	3.88	4.39	4.19							2.91 # 1.70 2.08	4.13 3.91 4.06						3.37 5.40 5.21	3,33	36.32 4 41.60 4 42.54 4	44.27	45.2
2996	MATAUGA DAM 7 COLESVILLE ES 1 GUTLER R ES	6-2 6-2 7VA 6-2 7VA	1714 2130 2070	282	3.12 # 3.30 # 2.57	4.09	5.32 6.13 5.57	4.19	3.67	4.60	3.40 3.56	3.91			4.05 6.90 3.78 5.99 4.29 4.05		2.69 4.26 2.78	4.71 4.33 3.88	2.23 3. 4.07 3. 2.93 3.		69 2.87 68 2.62 01 2.30			4.27 4.09 5.83	3.73	42.17 4 48.94 4	48.72 45.75 46.15	40.9
301A 3018	14 MOUNTAIN CITY X ES 18 MOUNTAIN CITY ES 5 LEFFERSON ES	H-2 US#8 H-2 TVA H-2 US#8	2429	0 0 0	2.70 2.08 2.04	3.62	5.46 5.33 4.15	3,69	3,58	3.89	4.12 4.05 3.53		2.17 3.87 2.04 3.43 2.47 4.09		4.16 4.29 3.34 4.02 3.82 4.61		3.13 3.02 5.25	4.26 3.93 5.82	4.44 3. 4.19 3. 3.63 4.	3.13 1. 3.43 1.	1.66 2.51 1.63 3.48 3.62 3.23		2.74	5.10 4.76 5.59	3.23	42,51 4 40,25 4 48,36 4	44.57 43.53 48.00	48.2 40.7 51.9
299	6 DODMVILLE ES 9 BANNEW ELK ES 3 GRANDFATMEW MOUNTAIN X ES		2115 3760 5240	35	2.12 3.12 3.92		3.79 4.62 5.35	3.70 4.12 5.30	3.16 4.77 5.33	86.0	3.20 4						6.33 9.01	5.34	1.89 3. 4.84 3. 6.79 5.			1.99	2.92	4.20 5.55 6.70	3.02			27.9 78.8 78.8
900	O WEESE ES T MAST ES PM ZIONVILLE ES	H-2 TVA H-2 TVA H-2 TVA	3320 2672 3710	35 27 17	2.59 2.19 3.22	3.27	4.50	3.85	3.85	4.35	3.54	3.76 3.50 4.45				1	4.59 3.32 4.71	4.54			2.71 3.00 2.79 2.39 3.52 3.32			5.09	3.16	41.58 4	47.01	54.6 51.7 57.0
9606	TRADE, RAGIO ES RICH MOUNTAIN CAP # ES BOONE ES	H-2 TVA H-2 TVA H-2 USW8	3510 4350 3225	23 23	2.20 3.17 3.15	4.81	3,80 4,24 5,12	3.61	3.40	3.56	3.62 4		2,00 3,29 2,92 4,42 3,12 4,51	# 4.65 2. # 4.67 4. 5.83 4.	2.90 4.40 4.53 5.34 4.39 5.71	0 4.07 94 6.02 71 6.34	4.10 5.41 6.38	3.33	3.98 4.	3.39 2. 4.79 4.	90 2.86 38 3.68 57 3.83	3.00		4.80 6.15 6.40	3.09	\$4.48 S	37,03 54,55 54,80	85.8
63.2	S BLOWING GOCK ES	M-2 USWB	3860	23	3.40	0.0	4.95	94.4	4.59	5.08	6.43	1.12	5,38 5,04				7.79	*0.0		90	32 4.74	6.76	16.4	6.21	4.20	70.37	58.10	65.3
S	Interpolated or partly interpolated	(R)	Recorder at	t present	(ad)) Digital	tel punch						į															
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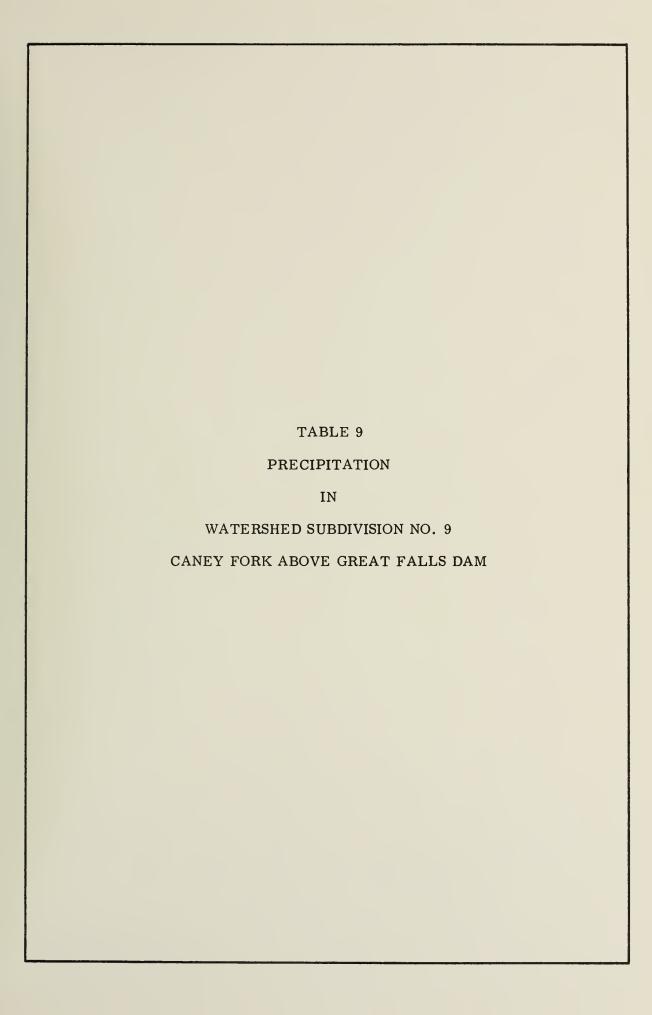






Cartina																						l					
THE COLOR OF THE STATE OF THE S		Station Name			Yrs. of		UARY	FEBRUARY	MARCH		APRIL		MAY	JUNE		JULY	AU	AUGUST	SEPTEMBER		OCTOBER	NOVEMBER		DECEMBER		YEAR	Depth of Snow
The part of the		and Location	Index Owner	Elev.	Record		Nor.1	Total Nor'l	Total Nor'l		Total Nor"		Total Nor'l	Total Nor'l		Total Nor'I		Total Nor'l	Total Nor'l		Total Nor'l	Total	Nor'I	Total Nor'l	le Total	Nor 1	3
THE COLOR OF THE C		INCSTON ES INCSTON STEAM PLANT R ARRIMAN ES		760	19	4.22					3.16 4.12 2.17 3.79 2.70 4.00	3.77	3.58		45 3.69 37 4.32 08 3.81	89 4.49 32 4.53 81 4.92	9 3.12 3 5.42 2 5.48	2.90 3.66	3.49	2.00 5.42 5.20	1.71 2.59 1.61 2.23 1.75 2.46	5.72	3.84	9.76 4.95 9.48 5.21 10.48 5.28		49.76 46.21 51.54	12.6
## 1770 31		ETROS ES ILOT HOUNTAIN SOLINE R		13 60	3.5	3.48				6.08 3. 5.17 2.	3.61 4.80 2.82 3.99 5.06	3,27	3.93	5.28 4.70 6.26 3.77 8.41								4.67 2.58 3.37			1		24.4
TAX ES		CLAAKRANGE HEGGERTSGURG CROSSVILLE, NEAR		1770 1770 1920	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3.16					4.75 4.26 4.36 4.43 5.70 4.37	5.15 3.37 5.93	3.90	6.86 3.92 7.94 3.93 5.92 4.03	92 2.82 93 2.67 03 3.23	62 4.85 67 5.36 23 4.66	2.62	9.79	3.66	3.38 2.38	1.46 2.49 2.33 2.66 2.26 2.83	3.32 3.92 3.09	5.94 4.15 4.03			50,54 52,60 54,00	31.5
THE STATE OF THE S		ANTANA R 1G LICK RANKFORT		2000 1770 1475	29 20 30	5.28			2.22 2.00		4.66 4.20 3.98 4.80 4.01 3.88	5.17	3.70	4.40 3.94 5.23 4.40 9.90 3.71	94 3.29 40 4.14 71 3.76	29 4.50 14 5.51 76 4.95	3.15	30.36	9.00 M	3.23 2 4.13 2 2.71 1	2.13 2.39 2.21 2.74 1.72 2.52	3.46	3.82	10.35 5.25 10.17 5.87 9.55 4.45			23.7
FIG. 6.2 CCCC				1460	30 16 35	3.90			2.38		3.60 4.05 5.27 5.09 2.24 3.86	5, 90 2, 93	3.05 4.31 3.32		59 # 3,70 25 1,53 46 3,12		4 # 1,30 2 2,29 6 4,81	111				3.00		9.40 4.08	8 48.90 54.24 3 47.09	93.49	24.7
FEST FEET TO THE STATE OF THE S		AULETTE HEAT R XX ES AK RIOGE/NEAR XX ES		1050 750 900	21 23	5.05			4.06 2.47 2.23			2.32	34.7	7.70 3.95 5.01 4.20 4.79 3.38	ļ	65 4.35 40 5.62 99 5.31	2 2,35	3.37	3.57 4.01 3.75	3.08 2 3.99 1	2.56 2.29 2.26 3.18 1.79 2.82	3.37	3.67	9.60 4.42 7.89 5.58 10.65 5.22	5 55.35 8 55.57 5 47.79		20.0
F = 2		ELTON HILL OAM ES ULL RUN STEAM PLANT R AK RIOGE W 8 R XX ES		9000	23 7 9	3.80	4.20 4.15 5.94	5.22	# 2.53 2.33 2.24		3.19 4.10 2.44 4.20 2.86 4.20	3.96	3.71 3.67 8.73		36 3.51 24 5.27						l.	2.60			8 49.47 8 49.40 49.58		8.5
F=2 (154 120 2) 6 4.01 5.12 5.44 5.02 5.44 6.0		INTON MATER PLANT ES ASPER ES DRAIS R ES		1020	01 32 26	3.75 3.71 3.86			2.30	5.50 2.20	3.25 4.39 2.20 4.00 2.38 3.90	3.22	4.15 3.73	5.94 3.83 7.55 4.00 7.05 3.97	83 5.11 00 7.65 97 5.43		1 2.72 7 4.91 7 2.33	3.67	2.70 2.91 1.96		1.85 2.66 2.07 2.29 1.69 2.35	2.83 4.20 2.87		7.69 5.06 10.75 4.99 9.09 4.72	1	52.99 50.37 48.82	19.9
ES		ORRIS X ES ORRIS OAH URLEY ES		1066	36	4.01	4.13 5.12 5.14		2.28 2.16 1.63		2.66 4.51 2.70 3.85 3.15 3.76	1.90 2.70 2.40	3.75	7.18 4.38 6.65 3.91 6.90 5.04	36 4.77 91 5.00 04 3.86	77 6.31 00 4.45 86 5.06	3.46		2.00 2.00 4.17	3.08 1 3.18 1 3.24 2	1.73 2.94 1.70 2.40 2.41 2.50	3.01	3.74	9,39 4,85 9,76 4,8 8,61 4,5	2 46.98 1 48.71 5 93.38	50.06	27.5 24.6 39.5
F=2 TVA 1120 33 1.77 2.19 4.4.0 S F=2 TVA 1120 34 1.77 2.19 4.4.0 F=2 TVA 1120 35 1.18 5.03 6.41 4.4.0 E=2 TVA 1120 35 1.18 5.03 6.41 4.4.0 G=2 TVA 1120 35 1.18 5.18 5.20 6.41 4.4.0 G=2 TVA 1120 35 1.18 5.18 6.4.0 G=2 TVA 1120 2.19 6.4.19 6.4.0 E=3 TVA 1120 2.10 1.18 6.4.19 6.4.0 E=4 TVA 1120 2.10 1.18 6.4.19 6.4.0 E=5 TVA 1120 2.10 1.18 6.4.19 6.4.0 E=5 TVA 1120 2.10 1.18 6.4.19 6.4.19 E=5 TVA 1120 2.10 1.18 6.4.19 E=5 TVA 1120 2.10 1.18 6.4.19 E=5 TVA 1120 2.10 1.18 6.4.19 E=6 TVA 1120 2.10 1.18 6.4.19 E=7 TVA 1120 2.18 6.4.19 E=7 TVA 1120 2.18 6.				1250 1130 1270	36	3.65			1.94 1.68 1.29		2.52 3.95 3.60 4.19 2.55 3.96	2.17 1.00 1.32	3.73									2.66		10.72 4.62 9.73 4.74 7.50 4.50	2 47,59 4 8 47,23 0 8 43,81		34.4
ES F=2 1744 1130 330 2.07 6.013 4.00 6.00 6.2 1744 1130 330 3.03 6.2 174 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.0		ELL SPRING ES RTHUR ES 100LESBORD ES		1120	32 34	2.72 3.75 3.18	4.29 5.19 5.03		0.72		1.65 3.37 2.89 3.87 2.94 4.06	2.55	3.59	4.84 3.70 6.56 4.22 7.98 4.41	70 4.79 22 5.14 41 3.90		3 3.04		2.16	2.73 1 2.87 1 2.56 2	1.90 2.22 1.87 2.91 2.03 2.39	3.02	8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8.92 4.14 9.06 4.67 9.03 4.66	41.26 7 47.48 6 46.57	45,20 50,55 49,31	27.5
ES				1430 1375 1386	388	3.89			1.71		3.09 4.00 2.45 3.89 3.12 3.92		3.0.0			42 5.28 43 5.43 60 5.60		3.99				4.08 3.34 3.74					39.5 25.7 25.0
ES F-2 USA 1930 319 316 6.70 5.01 4.		INCER ES G STONE GAP ES GM KNDG R ES		1460	35	3.11 3.35 2.21	444		2.02 2.32 # 1.96		2.84 3.82 2.67 4.36 3.78 3.88	1.95 2.50 3.32	4.09 4.20 4.12	6.86 4.39 8.52 4.35 7.30 4.56	39 3.64 35 5.22 56 5.20	64 5.38 22 9.75 20 6.34	6 4.73	4.50	0000	2.90 1 3.32 1	1.54 2.40 1.87 2.58 2.32 2.66	3.25	3.000 3.000 3.000	9.26 4.21 9:32 4.50 6.81 3.55	1 8 44,29 0 46,75 5 8 45,09	49.64 50.81 50.32	29.0
ES F=2 TV4 1300 C2 1,12 4,77 5,91 1,10 C 1,1	- DI	SE X ES NBAR, VIRGINIA ES ITE HOLLOW R ES		2500 1930 1500	33	2,15 3,84 2,80			2.10 1.82 1.66		3.17 4.22 1.99 3.91 2.30 5.53		3.92	5.45 3.85 4.13 4.24 7.08 3.71	85 5.23 24 5.02 71 6.83	23 5.87 02 6.00 83 4.60	7 4.99 0 5.12 0 3.17	4.12 4.28 3.11		3.16 1 2.93 # 1 2.57 1	1.41 2.35 1.89 2.52 1.99 2.33	3.09	3.37	6.65 3.42 5.68 3.79 9.63 4.40	2 40.92 9 # 39.93 0 49.08	46.33 49.48 45.74	49.7
ES C-2 TVA 1820 23 P. 241 C.05 C.2 C.0 C.2 TVA 1820 23 P. 241 C.05 C.2 C.0 C.2 TVA 1820 23 P. 241 C.05 C.2 C.0 C.2 TVA 1820 23 P. 242 C.05 C.2 C.0 C.2 TVA 1820 23 P. 242 C.05 C.2 C.0 C.2 TVA 1820 23 P. 193 D.02 C.2 C.2 C.2 C.0 D.02 C.2 C.0 C.2 C.0 C.2 C.0 C.2 C.0 C.2 C.0 C.2 C.0 C.2 C.2 C.0 C.2	9.9.9	LKERS FORD X ES .EWELL, NEAR, TENN ES .ZEWELL TENN ES		1060	550	# 4.12 3.00 3.54						2.43	3.92	0.11 3.0 6.23 3.6 7.39						-		3.34 3.86 3.86					26.9
14 ES 6-2 TVA 1340 35 1.91 1.02 4.01 3.00 6.02 1.01 3.00 6.02 TVA 1340 10 1.03 1.03 3.00 8.4.70 3.00 8		G SYCAMORE R ES IORN MILL ES INCHPORT ES		2025 1430 1260	33	# 3.01 2.61 3.22	6.83		1.5%				3.58		70 6.29 50 5.37 91 5.12		1 3 3.59		1.96	2.54 1	1.77 2.14 1.60 2.29 1.62 2.44	3.94 3.94	3.20	9.20 4.04 7.80 4.17 6.41 3.89	•	44.98	25.6
S H-1 TVA 1220 29 11.79 3.49 3.40 3.17 3.12 8.18 8.10 3.17 3.12 8.18 8.18 8.19 9.19 9.19 9.19 9.10 9.10 9.10 9.10 9	3-1-			2500 1540 1480	35 36 10	2.90 1.91 # 1.53	3.00		# 1.85 2.21 # 1.56		2,48 3,44 2,53 3,36 2,79 3,49	2.06 1.78 1.90	3.77	5.87 3.67 5.88 4.24 6.50 3.46	1	28 5.70 15 5.31 95 5.10		3 · 8 8 4 · 5 9				2.46			1 37.11		28.2
ES H-1 TVA 2790 339 11-72 31-39 31-39 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-48 31-79 31-79 31-48 31-79 31-79 31-48 31-79 31-79 31-79 31-48 31-79 31-7	400	NAKER, NEAR ES NAKER R ES AING CREEK R ES		2220 1960 2365	35 20 21	1.93	8.00 9.00 7.00 7.00		2.14 # 1.92 2.21	3.94 2.27	5.32 3.30 2.43 2.95 2.63 3.45	3.00	3.04	5.12 4.24 5.77 3.65 4.83 3.20	24 6.23 65 9.96 28 9.80				1.97	3.28 1 3.07 1 2.84	1.09 2.69 1.13 2.37 1.56 2.33	1.75	2.98	5.73 3.07 5.69 3.09	7 # 39.10 9 38.78	46.71	34.7
(B) Recorder at present (DP)	X W 4			1900 2750 2520	222	1.72	 		2.06		2.79 3.36 2.60 3.30 2.07 3.21	2.82 2.71 2.02	3.67	5.42 3.76 4.93 4.07 3.27 3.87	76 4.43 07 4.34 87 7.14	43 5,38 34 5,07 14 4,94	9 3.01 7 4.02 5 3.02	4.20 4.23 3.85	1,34	2,99	1.33 2.44 1.11 2.54 1.45 2.42	1.70	2.43	4.51 3.12	3 33.64	43.39	26.2
(6) Recorder at present (DP)																											
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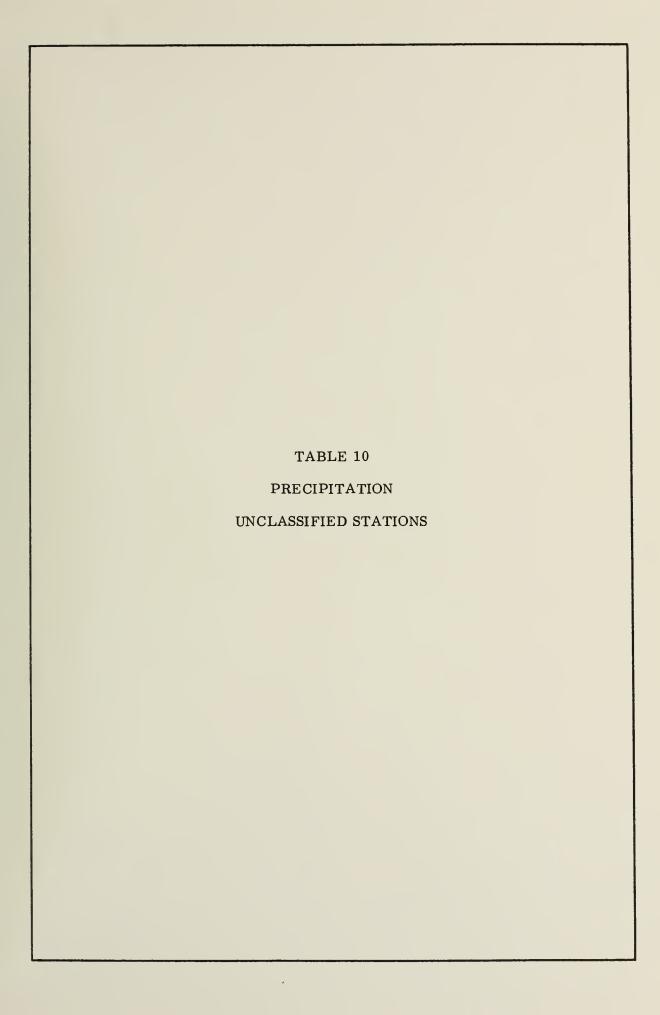






핕	TENNESSEE VALLEY AUTHORITY	LEY AUTH	ORITY																			DI	DIVISION		VATER	OF WATER CONTROL PLANNING)L PL	ANNI	9[
Sta. No.	a, Station Name	. Name	Index Owner		Yrs Elev. Rec	Yrs.of J Record To	JANUARY Total Nor'l		FEBRUARY Total Nor'I	MARCH Total Nor'I		APRIL Total Nor"I		MAY Total Nor'l	JUNE Total Nor'l		JULY Total Nor'l	AUGUST Total Nor'l		SEPTEMBER Total Nor'I	OCTOBER Total Nor'l		NOVEMBER Total Nor'!		DECEMBER Total Nor'I		YEAR Snow Total Nor'l (Inches)	Depth of Snow (Inches)	+ ~
439	CANEY FORM ABOVE CREAT FALLS DAY-SUBDIVISION NO. 9 ROCK ISLAND POWERHOUSE 0-3 TVA 0.00 BEEL 0-3 TVA CORRELA	GREAT FALLS OF	0-3 TVA 0-3 TVA 0-3 TVA C-3 USW8		9000		4.23 4.21 4.21		5.82 6.09 5.20 5.30 5.18	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	45 4.30		24.4 24.4 24.4 24.4 24.4 24.4 24.4 24.4	4.45 3. 2.73 4.		91 4.92 50 4.73	2.39		7.79 3. 5.01 3.	31 2.4		115 3.9 21 3.9 03 4.1		60.4		92.11	11.0	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1					30 %	1				6.10 5.50 6.50	5.99 3.94 5.86 5.06 4.00 5.11	5.78	9 4.40	3.95 3.	3.79 3.33 4.36 3.93 3.75 # 3.20	.33 4.39 .93 4.58	2.88 4.95 # 3.70	3.41	7.27 3.40 5.68 3.47 3.50 3.15	1.55 2.11 1.92 2.47 0.70 2.50	111 2-19 47 2-60 50 1-40	19 3.49	9 10.26 6 6.97 1 # 8.50	26 4.42 97 5.53 50 4.98	97.01 01.41 8 44.80	46.90 56.19 50.44	9.0	
87 878 442	7 HCHINNVILLE X 78 HCHINNVILLE 2 TROUSOALE				-				L.	1								2.19	3.67								\$2.00 \$1.71 \$0.37	9.00	
443							l i											2.41	3.46							•		0.0	
432A 433 105	24 SPARTAJNEAR 3 TAYLORS 5 MONTEREY		0-3 USW8 0-2 TVA 0-2 USW8			30 R 4	# 4.37 5. 4.88 5.		5.13 5.30 5.86 5.13 6.18 5.70				# 5.44 5 4.95 1 4.85				6.47 5.05 6.14 4.94 6.20 5.10	3.17	3.50		H 1.86 2.4 1.81 2.4 2.03 2.8						52.98 52.97 58.24	15.7	i
436	FALLS CREEK PARK		0-3 1VA 0-3 1VA 1VA		1750 1685 1500		4.42 5.4.79 4.79		6.28 5.59 5.20 5.21 6.08 5.30	1		1						2.83	4.31 3.68 3.91		1 1	•				55.08 49.80 # 56.17	55.82 49.50 51.08	29.7	
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DIVISION OF WATER CONTROL PLANNING	YEAR Snow	Amount 1	1.00		10.3																		
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	AUGUST	NON	62 2.97 119 2.72 28 3.31		4.39 3.9 3.96 3.2 1.53 4.3					1													
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		- 1	5.07 5.71 5.28	6.28 5.29 6.40	9.63 9.25 9.90	5.48																	
	MARCH	lotal Nor I	2.63	2.79	3.16	2.65																	
	FEBRUARY	Total Nor 1	4.04	5.22	3.24	4.74																	
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	JANUARY	Total Nor I	6.03 6.03		3.31		Oigital punch																
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Tennessee Valley Authority Division of Water Control Planning

MEAN AND MEDIAN PRECIPITATION

IN

TENNESSEE RIVER BASIN

APPENDIX TO

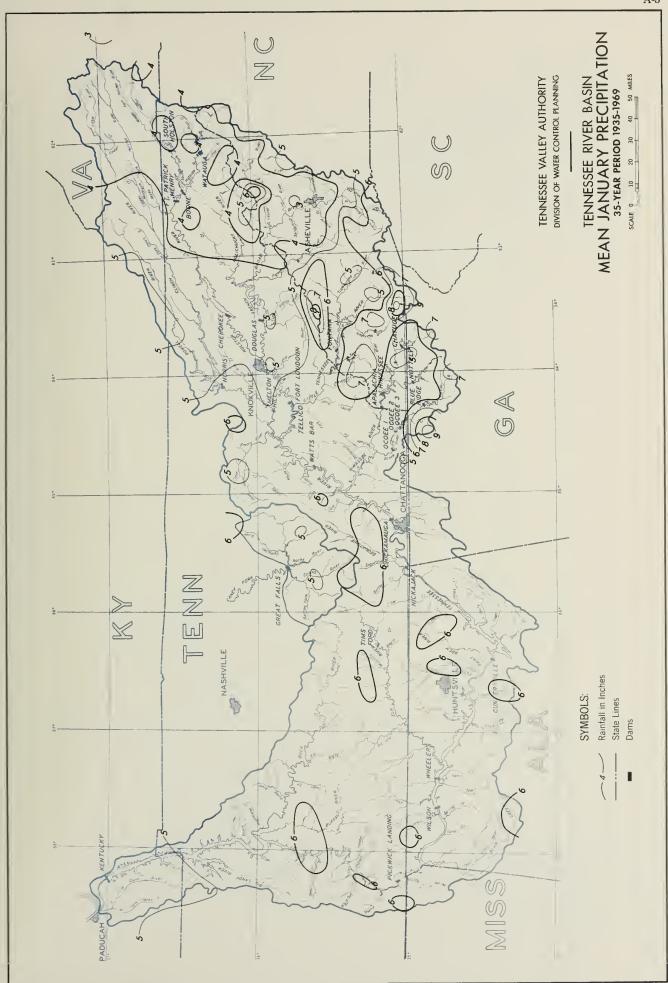
PRECIPITATION

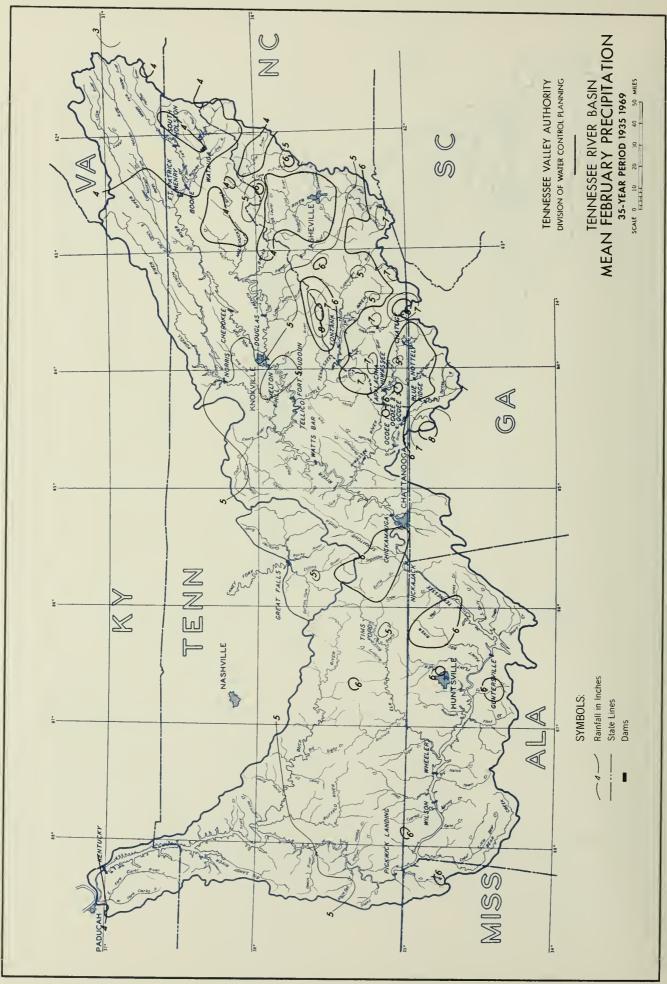
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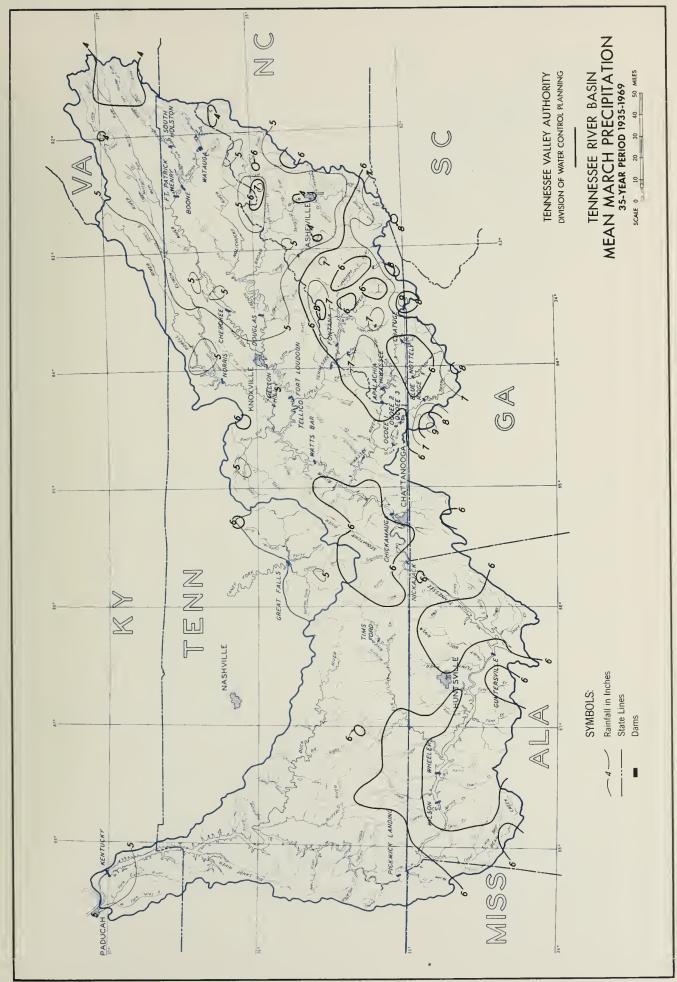
TENNESSEE RIVER BASIN

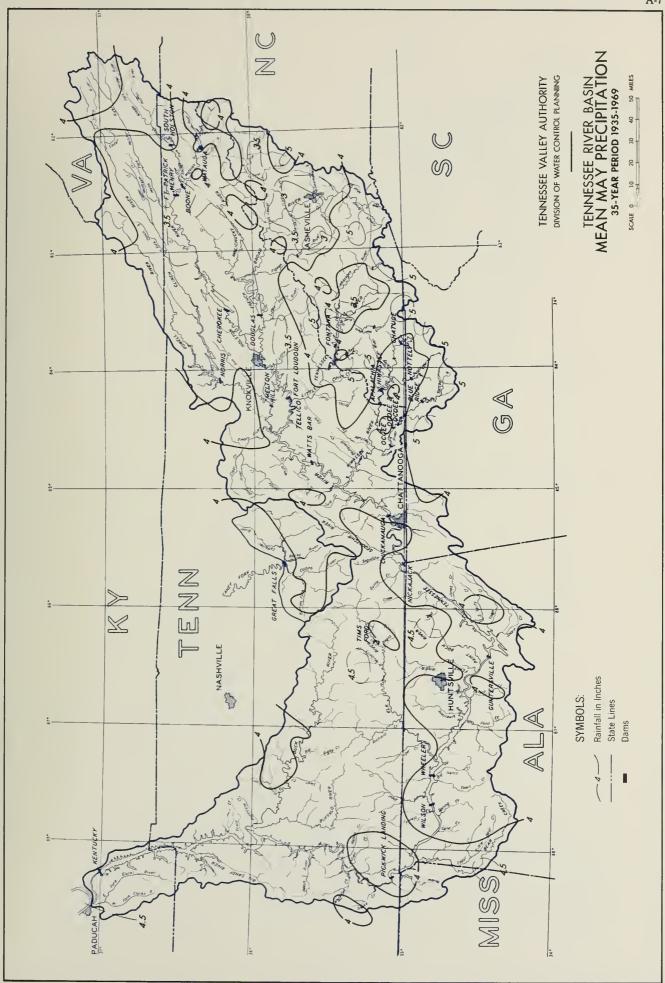
ANNUAL 1969

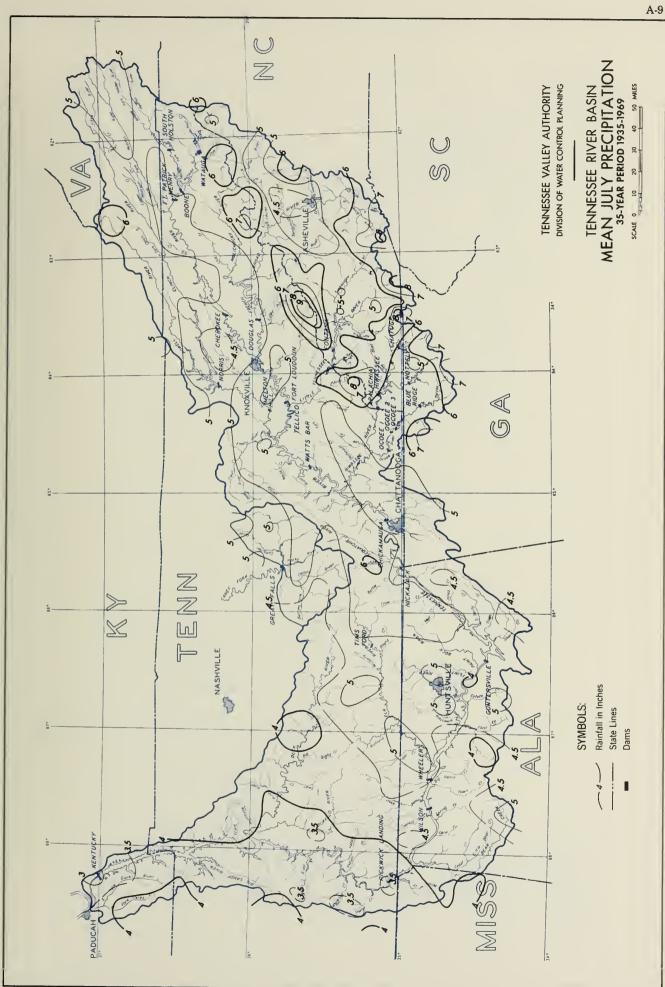


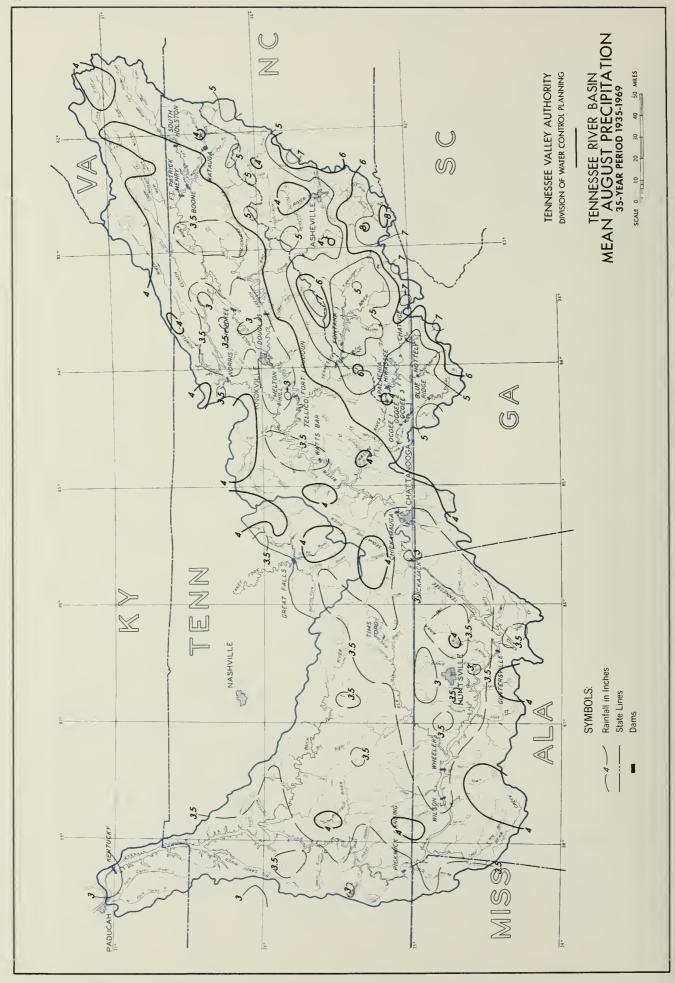


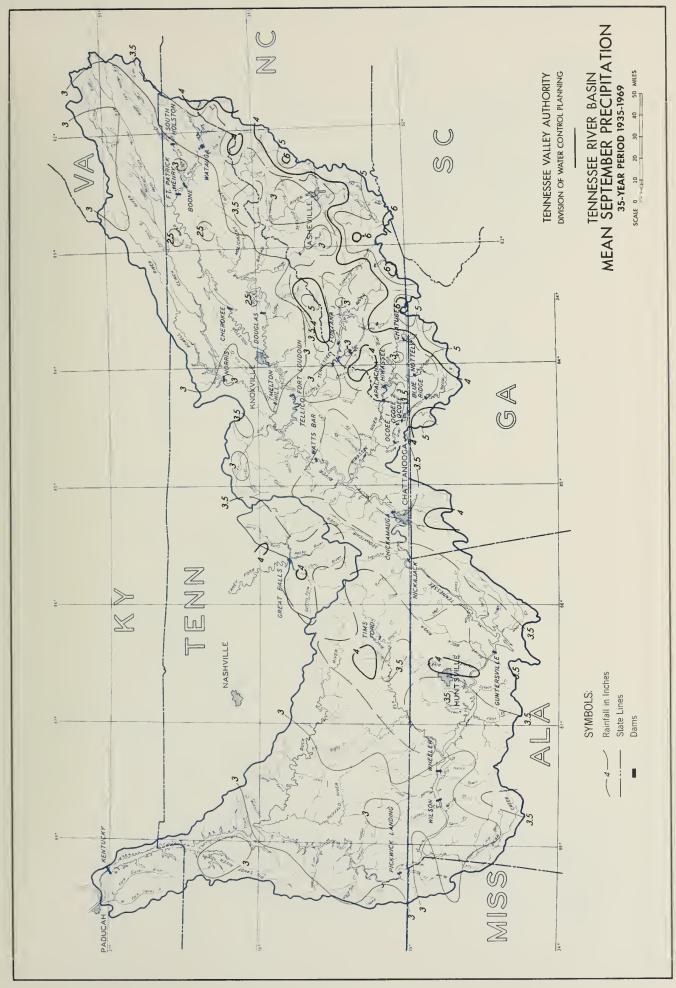


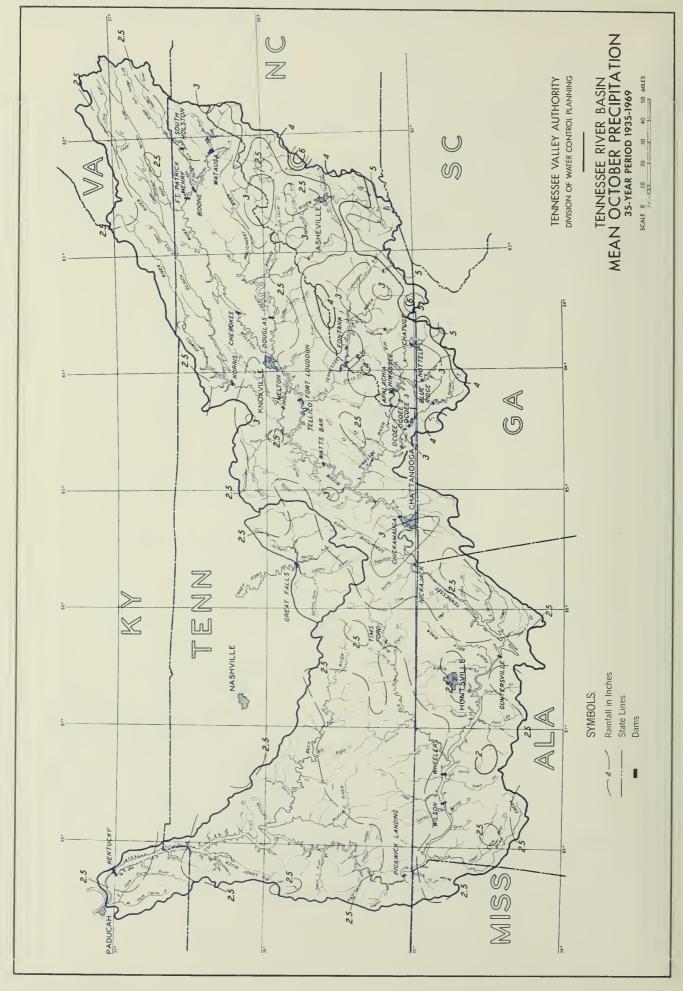


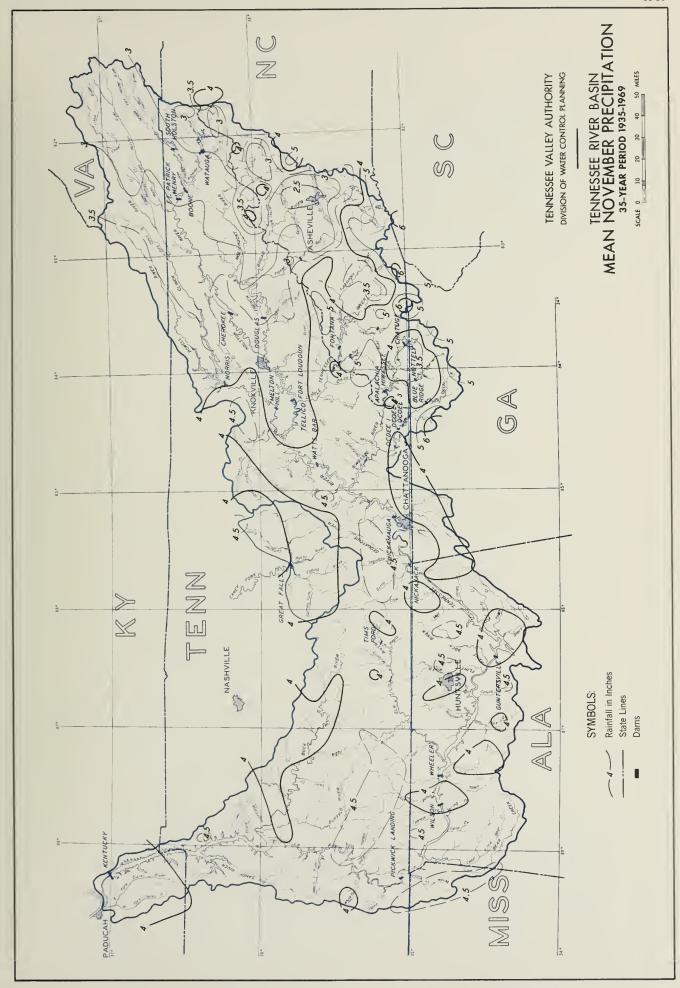


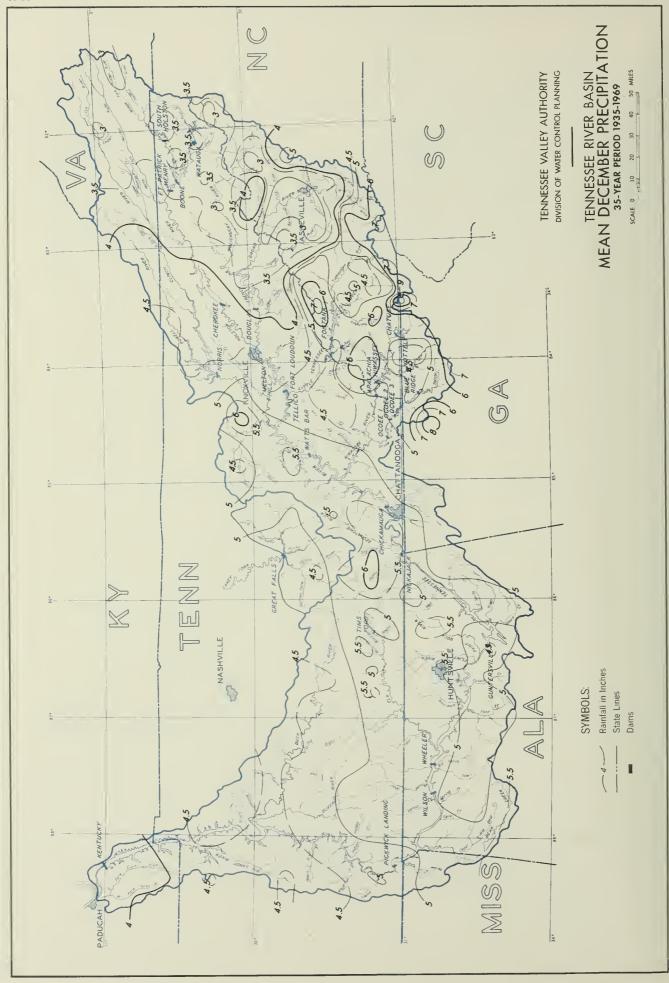


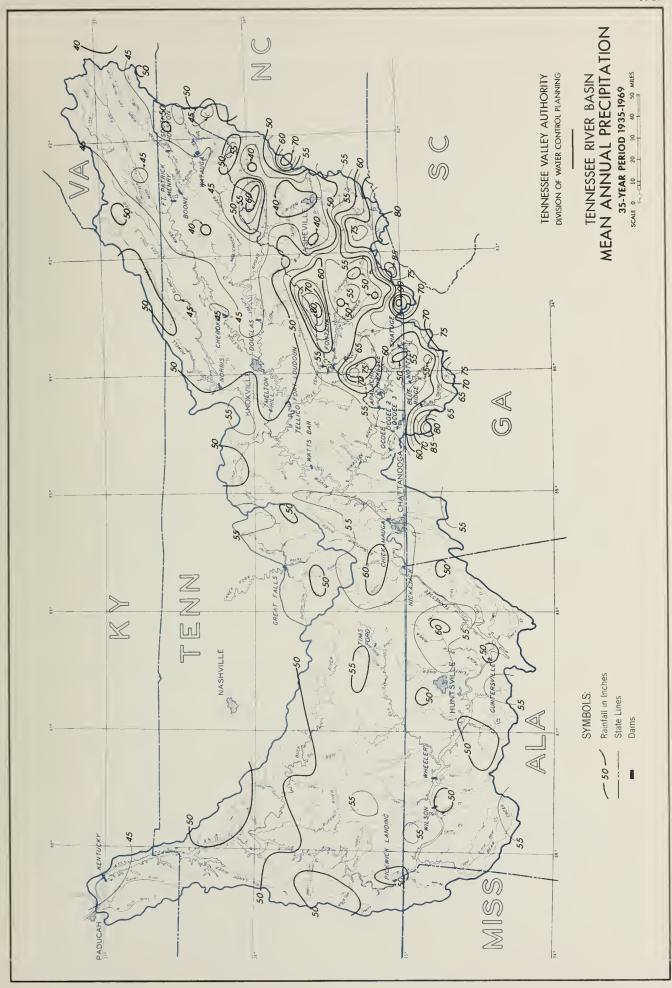














MEAN AND MEDIAN PRECIPITATION

IN

TENNESSEE RIVER BASIN

Computations of mean and median precipitation in the Tennessee River Basin appearing in a report issued in 1964 have been updated to include the 5-year period 1965-1969. Mean and median data shown in this report are for the 80-year period 1890-1969 and the 35-year period 1935-1969. A brief explanation of the data follows:

Pages A-3 through A-14 preceding this page show the 35-year (1935-1969) mean precipitation over the Tennessee River Basin for each month, January through December; page A-15 shows the 35-year mean annual precipitation.

80-Year Mean and Median Precipitation

The monthly mean precipitation for the period January 1890 to December 1969, shown in Tables 1A, 2A, and 3A, was computed using all available records. For the period 1890 to 1934 the means are computed arithmetically for the two major watershed subdivisions of the Basin above and below Chattanooga. Records for a limited number of stations, operated mostly by the U. S. Weather Bureau, were available up to 1934. In 1934, TVA began installing additional rain gage stations. Beginning in 1935 both the above and below Chattanooga values are based on weighted means of available precipitation records, using the Thiessen method of weighting each station. The Basin means are weighted means computed from the above and below Chattanooga values. The 80-year median monthly and annual precipitation is also shown on these tables.

35-Year Mean and Median Precipitation

Mean precipitation for the 35-year period (1935-1969) was computed by the Thiessen method for the two major watershed subdivisions of the Basin above and below Chattanooga and for 74 smaller subdivision areas.

Quarterly mean and median precipitation data for the 35- and 80-year periods are shown in Table 4A for the Basin and its two major subdivisions. Table 5A shows 35- and 79-year mean and median precipitation data for these three watersheds for the fiscal year (July 1-June 30) and the water year (October 1-September 30).

Table 6A shows monthly and annual 35-year mean, median, maximum, and minimum precipitation for 66 watershed subdivisions of the Tennessee River Basin. The rain gage network in the Beech River watershed was established in 1953; therefore, the data for these eight subdivision areas are for the 17-year period 1953-1969.

TABLE 1A

MEAN PRECIPITATION—INCHES

					TEN	NESSEE	RIVER BA	ASIN					
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1890	5.06	8.55	5.82	4.00	4.98	2.81	4.08	5.42	6.05	3.66	0.83	4.11	55·37
1891	5.71	9.11	9.13	2.94	1.88	5.46	5.05	3.87	1.50	0.73	4.74	4.44	54·56
1892	5.62	3.60	3.87	9.60	4.22	5.36	6.13	4.47	3.04	0.34	5.96	4.73	56·94
1893	2.10	7.07	2.79	5.69	7.59	4.78	3.24	2.79	4.28	2.13	2.21	2.98	47·65
1894	4.50	6.61	3.48	3.12	3.14	2.94	4.67	4.63	2.12	1.51	1.07	5.18	42·97
1895	6.77	1.79	5.64	3.93	3.98	3.44	6.28	4.26	2.07	1.90	2.46	4.00	46.52
1896	2.33	4.97	6.03	3.47	3.59	4.78	8.08	2.14	3.44	1.56	6.55	1.35	48.29
1897	3.23	5.51	11.23	5.59	3.18	3.40	5.51	3.05	0.50	1.99	2.70	5.74	51.63
1898	7.14	1.13	4.69	4.17	2.77	3.38	6.45	4.95	4.71	5.13	3.37	2.66	50.55
1899	4.98	7.19	9.97	3.52	3.20	3.20	4.74	3.04	1.78	2.42	2.36	5.29	51.69
1900	3.21	5.65	4.60	5.85	2.83	9.47	4.54	2.50	3.31	4.58	4.99	3.25	54.78
1901	4.68	1.90	5.22	5.48	4.97	4.16	2.58	11.86	4.28	1.46	1.50	8.24	56.33
1902	4.43	4.36	6.81	2.51	2.54	4.37	2.48	3.09	5.16	2.25	4.49	5.23	47.72
1903	3.09	9.04	6.75	5.00	4.32	5.12	4.16	3.50	0.85	2.21	3.59	2.92	50.55
1904	3.10	2.56	6.35	2.91	3.85	3.52	3.89	3.85	1.78	0.49	3.16	5.32	40.78
1905	3.83	5.39	3.70	3.56	5.67	5.71	4.98	5.34	2.27	4.78	1.44	5.82	52.49
1906	5.16	1.34	5.76	2.37	3.29	4.44	8.60	4.88	6.96	3.87	4.96	4.91	56.54
1907	2.08	3.82	4.41	4.38	5.70	4.67	4.46	3.56	5.80	1.89	5.28	4.42	50.47
1908	4.03	5.23	4.69	5.07	4.41	3.72	4.68	5.08	2.25	2.68	2.31	5.76	49.91
1909	3.25	7.37	6.33	5.29	6.34	7.35	5.18	2.92	3.79	2.79	1.41	3.97	55.99
1910	4.05	4.22	1.16	3.93	6.00	5.83	6.76	3.47	2.83	3.03	1.47	4.26	47.01
1911	4.65	4.20	3.63	8.55	1.95	3.54	5.10	4.68	2.87	4.15	4.19	7.74	55.25
1912	3.63	4.24	8.13	8.39	4.23	4.50	5.93	4.40	3.88	1.87	1.63	5.52	56.35
1913	8.45	4.95	7.45	2.56	4.66	3.06	3.45	2.91	4.05	2.84	1.46	3.33	49.17
1914	2.19	3.83	4.19	4.39	1.68	2.63	4.60	5.40	2.35	3.83	2.56	7.68	45.33
1915	5.34	3.86	2.87	1.25	5.01	3.87	4.61	6.22	3.99	3.78	5.27	6.91	52.98
1916	6.06	3.64	2.90	2.67	4.88	5.63	10.08	4.39	2.05	2.61	2.22	4.50	51.63
1917	6.43	4.24	11.19	3.81	3.16	4.67	6.83	3.87	3.55	2.57	0.99	1.70	53.01
1918	6.97	2.54	2.03	5.74	3.94	4.62	3.97	2.58	3.42	7.50	2.62	4.68	50.61
1919	5.45	3.55	6.77	3.28	5.88	4.76	3.41	5.35	1.01	7.05	4.69	4.02	55.22
1920	5.31	3.68	6.62	8.60	4.13	5.10	4.42	8.55	3.71	0.83	3.38	5.74	60.07
1921	3.60	5.58	3.93	5.14	2.85	3.38	5.68	5.67	4.01	2.35	5.33	2.82	50.3 ¹
1922	5.29	4.58	9.31	5.31	4.93	4.34	4.93	3.08	1.34	1.99	1.89	7.92	51.91
1923	5.57	4.67	6.71	5.06	6.84	4.16	4.50	5.68	2.59	1.64	3.46	5.65	56.53
1924	5.98	4.30	3.69	5.82	5.43	3.80	4.01	2.82	4.92	0.49	1.17	6.51	48.94
1925	4.56	3.54	2.48	2.98	2.09	2.90	3.21	1.57	2.14	7.54	4.61	2.16	39.78
1926	4.54	3.04	4.03	2.46	3.03	4.53	3.91	6.90	2.15	3.62	5.32	10.06	53.59
1927	3.04	4.60	6.39	5.86	4.56	5.20	4.04	4.05	1.73	2.67	4.57	6.78	53.49
1928	2.68	2.15	5.22	6.17	5.09	9.16	4.10	5.98	3.76	4.88	3.20	1.58	53.97
1929	4.90	5.16	8.48	4.90	7.75	5.04	4.49	1.94	6.23	3.95	6.91	3.10	62.85
1930	3.36	3.41	4.62	1.59	5.54	1.85	2.42	2.75	3.93	2.36	3.97	3.12	38.92
1931	2.11	3.68	3.75	4.11	3.29	1.85	5.49	4.45	1.55	1.82	2.84	9.22	44.16
1932	7.24	6.05	4.85	4.61	2.77	4.69	4.97	4.14	3.85	7.06	3.52	8.45	62.20
1933	3.09	6.34	5.02	4.02	6.88	1.92	5.61	4.53	2.76	1.42	1.95	4.05	47.59
1934	3.29	3.28	8.11	2.91	2.80	5.61	5.04	5.34	4.09	3.22	3.93	2.83	50.45
1935	4.81	4.01	7.47	4.93	4.67	4.01	3.73	3.58	1.62	3.28	5.42	2.07	49.60
1936	6.96	4.22	6.57	5.85	1.27	1.60	7.14	3.31	3.93	4.48	2.45	6.59	54.37
1937	12.01	4.21	2.29	4.71	4.30	3.56	4.43	5.43	2.69	6.00	1.68	3.51	54.82
1938	4.90	2.06	5.91	5.36	5.87	5.38	7.17	4.33	2.33	0.41	4.69	2.49	50.90
1939	5.70	10.03	4.94	4.43	3.46	5.49	4.44	3.61	1.57	1.00	1.36	3.10	49.13
1940	2.28	5.15	5.36	4.28	2.93	4.34	4.99	5.96	0.85	2.08	3.59	3.49	45.30
1941	2.84	1.08	3.41	3.35	_0.89	3.43	8.23	4.03	1.18	3.11	2.83	3.48	<u>37.86</u>
1942	3.38	1.17	5.17	1.71	3.89	3.85	4.80	6.97	3.60	2.70	2.24	8.57	<u>51.05</u>
1943	2.64	3.12	6.21	3.65	3.55	3.47	5.01	2.76	4.87	1.57	2.07	3.06	41.98
1944	2.74	9.71	7.95	4.89	3.01	2.20	2.62	4.31	5.94	1.50	3.02	5.47	53.36
1945	3.91	7.47	4.26	5.31	5.03	4.35	4.52	3.69	3.57	3.07	5.83	5.42	56.43
1946	8.56	6.40	5.23	3.65	5.84	3.21	4.90	3.52	3.93	2.88	4.51	3.61	56.24
1947	9.65	2.02	3.69	3.80	4.31	4.41	3.32	3.92	2.15	2.77	4.71	2.52	47.27
1948	3.92	8.54	7.03	3.25	3.36	3.34	5.39	3.00	3.06	1.67	11.16	5.67	59.39
1949	8.54	3.96	5.37	4.23	3.91	6.08	6.70	5.22	2.72	5.99	1.71	4.39	58.82
1950	10.39	5.95	6.66	2.01	5.80	4.74	6.81	5.63	4.44	1.77	3.75	3.28	61.23
1951	5.30	5.51	7.38	4.76	1.69	5.94	4.44	2.06	4.58	2.23	6.13	8.51	58.53
1952	5.97	2.96	7.09	2.67	3.37	2.20	2.42	5.39	2.75	1.41	3.90	3.93	44.06
1953	5.51	6.59	5.02	4.89	5.16	3.21	4.89	1.45	3.01	0.65	1.40	5.06	46.84
1954	9.85	3.17	4.37	4.14	3.74	2.76	3.08	2.84	1.59	2.14	2.98	6.29	46.95
1955	2.32	6.58	7.91	5.43	5.04	3.08	4.75	2.72	1.83	2.77	3.66	2.79	48.88
1956	3.51	9.31	4.56	5.93	3.24	3.33	5.06	3.03	2.72	2.56	2.48	6.50	52.23
1957	8.16	7.67	2.84	5.37	4.10	6.10	2.41	2.65	7.00	3.45	9.50	5.37	64.62
1958	2.75	3.67	3.78	6.73	4.44	3.30	7.00	3.44	3.54	1.21	3.63	2.02	45.51
1959	4.79	3.86	4.45	4.73	4.85	3.66	4.92	4.10	3.25	5.24	4.29	5.28	53.42
1960	4.18	3.97	5.43	2.34	2.97	4.54	3.46	4.94	4.36	3.81	3.01	2.96	45.97
1961	2.72	7.28	6.73	3.84	4.21	5.63	4.57	4.08	1.78	2.14	4.57	9.65	57.20
1962	7.50	7.86	5.12	4.96	2.28	5.13	4.31	2.34	4.81	2.95	4.28	3.07	54.61
1963	3.18	2.62	9.80	4.50	4.27	4.44	5.83	3.11	1.71	0.04	4.49	2.86	46.85
1964	5.20	4.53	8.21	8.11	2.85	2.17	5.56	5.67	3.72	4.53	3.66	5.06	59.27
1965	3.76	4.58	8.50	4.23	3.32	4.25	4.85	3.15	3.39	2.17	2.37	0.91	45.48
1966	4.18	5.42	2.79	4.66	4.80	2.06	5.12	5.40	4.53	4.09	3.77	4.46	51.28
1967	2.60	4.07	3.36	3.36	7.54	4.33	8.42	5.74	2.80	3.00	4.34	7.50	57.06
1968	4.94	1.08	5.09	4.90	5.00	2.64	3.74	2.41	3.15	3.05	3.51	4.09	43.60
1969	4.16	5.74	3.21	5.18	3.51	4.45	3.97	4.42	3.49	2.55	3.48	7.71	51.87
Mean	4.82	4.80	5.55	4.48	4.13	4.19	4.93	4.18	3.21	_2 <u>.85</u>	3.56	4.77	51.47
Median	4.55	4.27	5.22	4.41	4.12	4.29	4.74	4.04	3.20	_2 <u>.</u> 59	3.50	4.45	51.63
					-	Maximu	um Mi	nimum					

TABLE 2A

MEAN PRECIPITATION-INCHES

TENNESSEE RIVER BASIN ABOVE CHATTANOOGA

				TENNESSEE	RIVER	BASIN	ABOVE	CHATT	ANOOGA				
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1890	3.96	8.37	5.47	4.35	5.57	2.90	5.34	5.42	5.57	4.41	0.44	4.33	56.13
1891	5.20	9.69	8.61	2.22	2.53	5.08	4.56	5.21	1.77	0.89	3.82	4.43	54.01
1892	7.04	2.37	3.65	7.3 ⁴	3.30	6.36	4.92	3.83	2.30	0.41	5.89	3.09	51.50
1893	2.54	7.21	2.80	4.30	6.53	5.04	3.73	3.58	3.72	2.49	2.11	2.67	46.72
1894	3.68	5.97	2.52	2.69	3.81	3.51	4.31	4.20	1.85	2.11	1.01	5.68	41.34
1895	6.96	2.15	5.16	4.21	4.65	3.55	6.10	4.89	1.47	1.90	2.27	3.41	46.72
1896	1.99	4.50	5.54	2.92	3.35	5.32	9.53	2.42	3.71	1.64	6.30	1.06	48.28
1897	2.90	6.50	10.09	5.33	3.77	4.49	6.04	3.50	0.77	2.09	2.06	5.13	52.67
1898	6.17	0.96	4.80	4.02	2.96	3.56	6.81	6.57	5.71	6.13	3.23	2.46	53.38
1899	3.81	7.78	11.04	3.54	4.01	4.05	4.71	3.06	2.64	2.48	1.87	4.10	53.09
1900	3.12	6.13	5.25	4.05	2.09	7.36	4.45	2.75	3.81	3.36	5.02	3.60	50.99
1901	4.54	1.61	5.80	6.33	6.46	5.59	2.90	13.33	3.51	1.46	1.30	9.98	62.81
1902	3.74	5.21	6.02	2.03	2.61	5.75	2.73	2.67	5.14	2.21	3.80	4.13	46.04
1903	2.81	9.24	7.88	6.24	2.87	5.42	4.56	4.14	1.04	2.47	3.63	2.33	52.63
1904	2.89	3.35	6.06	2.70	3.60	3.73	3.72	4.60	1.41	0.17	3.42	4.68	40.33
1905	3.65	5.50	3.27	3.70	5.51	4.94	6.22	6.19	1.58	4.06	1.13	6.19	51.94
1906	5.90	1.30	5.15	2.76	3.33	5.81	8.99	5.78	6.48	3.75	4.36	4.57	58.18
1907	1.42	3.43	4.34	4.33	4.22	5.75	4.58	4.06	6.91	1.67	5.60	4.76	51.07
1908	1.23	4.52	4.48	4.79	3.76	3.24	5.79	5.86	2.00	4.36	1.96	6.31	51.30
1909	3.51	6.39	6.86	4.75	6.44	8.67	6.05	3.81	3.88	2.95	0.94	3.77	58.02
1910	3.93	3.88	1.37	3.59	6.59	5.79	6.51	4.75	3.26	2.15	1.43	4.44	47.69
1911	4.84	3.84	4.51	7.49	1.70	3.32	4.54	4.01	3.08	4.77	4.04	5.17	51.31
1912	3.36	4.01	7.63	7.35	4.32	4.78	5.59	3.73	4.11	1.80	1.90	4.77	53.35
1913	6.57	4.47	7.77	2.40	5.39	3.21	3.49	3.33	4.11	2.65	1.46	3.58	48.43
1914	2.31	3.77	4.25	4.44	1.42	3.14	5.37	5.15	1.99	4.67	2.91	8.16	47.58
1915	5.01	3.99	2.75	1.53	5.13	5.03	4.84	5.37	4.26	4.28	4.11	6.92	53.22
1916	4.97	4.35	2.79	2.45	4.27	5.47	11.07	4.97	2.48	3.02	2.38	3.70	51.92
1917	6.10	4.55	11.40	3.10	2.71	4.44	7.21	4.57	3.95	2.81	0.64	1.71	53.19
1918	6.90	2.66	2.67	5.24	4.15	5.26	4.29	3.18	3.39	8.37	2.31	5.07	53.49
1919	5.66	3.50	4.91	3.33	4.92	4.87	3.81	4.18	1.04	5.64	2.45	4.25	48.56
1920	4.44	3.75	6.61	7.13	2.85	5.46	4.50	9.80	4.34	0.90	3.76	6.06	59.60
1921	3.89	5.17	2.70	4.56	3.69	3.55	6.40	5.46	3.23	2.06	5.21	2.98	48.90
1922	5.45	4.52	8.16	4.96	4.48	4.62	5.53	3.31	1.48	2.48	1.34	7.50	53.83
1923	5.41	4.51	6.18	4.35	6.53	4.78	5.08	4.56	2.76	1.06	2.97	4.66	52.85
1924	5.96	4.02	3.81	5.82	4.88	3.55	5.22	2.85	6.56	0.88	1.28	6.66	51.49
1925	4.90	2.77	2.18	3.17	2.18	3.15	2.80	1.25	1.58	7.08	4.17	2.00	37.23
1926	4.83	3.55	4.09	2.82	2.82	4.18	4.66	6.09	2.61	3.06	5.11	8.75	52.57
1927	2.26	5.16	4.51	4.24	4.40	4.97	4.97	4.84	1.46	2.40	3.94	7.39	50.54
1928	2.46	2.02	5.33	5.40	5.55	7.95	4.71	6.65	5.75	4.41	2.56	1.53	54.32
1929	4.37	5.44	7.71	4.15	7.95	5.49	5.07	1.83	6.42	3.63	6.96	2.65	61.67
1930	2.42	2.69	4.22	1.93	4.73	2.42	2.69	3.17	4.30	2.05	3.67	3.03	37.32
1931	2.02	2.87	3.33	5.24	3.96	2.05	6.20	4.76	1.89	1.59	1.81	8.57	44.29
1932	5.83	5.72	5.01	3.83	3.43	5.17	3.96	3.74	2.96	6.52	3.89	8.93	58.99
1933	3.08	5.96	3.86	3.65	6.15	2.24	5.40	5.45	2.48	1.31	1.59	3.22	44.39
1934	3.38	3.51	8.19	3.41	3.04	5.09	5.41	6.55	3.30	3.79	3.82	2.53	52.02
1935	4.30	3.87	6.95	4.99	4.38	3.53	4.86	4.15	1.47	2.40	5.76	2.12	48.78
1936	8.74	4.70	6.57	6.04	1.30	1.73	6.29	4.47	4.56	4.36	1.74	6.52	57.02
1937	10.31	4.77	2.08	4.29	3.49	3.80	4.70	6.09	2.44	6.15	1.26	3.27	52.65
1938	4.25	2.28	5.56	5.24	6.37	5.25	8.02	4.15	2.88	0.33	4.62	2.58	51.53
1939	4.68	8.91	4.40	3.77	2.64	4.27	5.03	3.86	1.49	1.02	1.22	2.94	44.23
1940	2.17	4.44	4.61	4.05	2.88	4.83	5.18	7.85	0.90	2.14	2.56	3.15	44.76
1941	2.49	1.02	4.02	3.41	0.80	4.24	9.34	3.80	1.46	2.52	2.57	3.52	39.19
1942	3.42	3.86	5.29	0.95	5.39	4.47	6.70	7.47	4.09	2.53	2.24	8.85	55.26
1943	3.53	3.59	5.80	3.79	3.59	4.27	6.66	2.64	3.60	2.13	1.79	2.81	44.20
1944	2.63	9.38	7.41	4.21	3.00	2.42	2.84	3.81	6.77	2.04	3.27	4.20	51.98
1945	3.04	6.64	3.72	4.92	5.19	4.25	5.69	3.83	3.83	3.32	4.43	5.38	54.24
1946	7.71	5.39	4.87	4.00	6.02	3.27	4.67	3.52	3.23	3.39	3.13	3.60	52.80
1947	10.32	2.27	3.52	2.75	3.55	4.69	3.68	4.86	2.39	3.12	4.34	2.32	47.81
1948	3.75	6.80	6.18	3.06	3.21	3.99	5.53	4.27	2.61	1.68	10.30	5.73	57.11
1949	6.49	3.80	4.54	4.81	3.58	5.40	7.98	6.23	2.97	6.22	2.24	3.77	58.03
1950	7.75	5.01	6.21	1.72	6.65	5.22	6.61	4.67	4.25	2.30	2.63	3.72	56.74
1951	3.49	4.70	7.25	4.58	2.55	5.85	4.66	2.26	4.77	2.07	5.71	6.90	54.79
1952	5.56	2.48	6.99	2.73	3.56	2.88	2.82	5.32	2.61	0.81	4.29	3.96	44.01
1953	5.23	6.28	4.37	3.59	5.03	4.27	4.82	1.94	3.21	0.78	1.62	4.74	45.88
1954	9. 7 4	2.54	5.80	3.48	3.64	2.85	3.62	3.54	1.45	2.07	3.37	5.95	48.05
1955	2.25	6.15	7.48	4.79	4.33	3.31	5.08	3.21	2.03	3.03	3.43	2.73	47.82
1956	2.80	8.94	5.24	5.94	3.48	2.96	6.06	2.69	3.80	2.48	2.70	5.95	53.04
1957	7.73	8.03	2.77	6.06	3.41	6.57	2.02	3.02	7.69	3.29	7.94	5.56	64.09
1958	2.67	4.16	3.79	6.51	4.77	3.16	6.86	4.07	2.21	1.50	3.02	2.89	45.61
1959	4.58	3.64	4.58	5.37	4.74	3.39	4.79	4.09	3.54	6.02	4.58	4.46	53.78
1960	3.95	4.36	4.95	2.30	2.85	4.56	4.31	5.55	4.06	3.72	2.61	2.80	46.02
1961	2.85	7.43	5.49	4.04	3.92	5.82	4.89	4.92	1.57	2.70	3.92	9.69	57.24
1962	6.64	7.27	4.77	4.48	2.42	5.59	5.13	2.58	4.86	3.09	4.77	3.40	55.00
1963	3.79	2.63	10.30	3.78	4.12	4.59	5.95	2.92	2.24	0.04	4.92	2.44	47.72
1964	5.27	4.77	7.20	6.89	2.71	2.19	5.45	6.34	3.49	5.77	3.28	4.35	57.71
1965	3.83	3.76	8.17	4.25	3.73	3.88	5.09	3.52	3.39	2.61	2.49	_0.54	45.26
1966	3.78	5.80	3.31	5.10	3.96	2.15	5.90	5.68	5.23	4.63	4.60	3.56	53.70
1967	3.04	4.41	3.67	3.11	6.43	4.72	8.89	5.60	2.91	3.05	4.62	7.14	57.59
1968	4.65	0.85	4.64	4.86	4.28	3.51	4.04	2.77	2.74	3.31	2.84	3.77	42.26
1969	3.89	5.81	3.44	3.64	2.89	5.77	4.59	4.87	3.60	2.02	3.19	6.80	50.51
Mean Median	4.52 3.96	4.68 4.46	5.33 4.98	4.20 4.18	4.05 3.80	4.42 4.48 Maxim	5.30 5.08	4.50 4.16	3.28 3.22	2.9 <u>1</u> 2.50	3.30 3.16	4.54 4.16	51.03 51.93

TABLE 3A

MEAN PRECIPITATION—INCHES

				TENNESSEE	RIVER	BASIN	BELOW	CHATT	ANOOGA				
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	<u>Annual</u>
1890	6.31	8.76	6.22	3.60	4.30	2.70	2.65	5.42	6.60	2.80	1.28	3.85	54.49
1891	6.30	8.45	9.73	3.76	1.14	5.89	5.61	2.35	1.20	0.55	5.80	4.46	55.24
1892	3.99	4.44	4.13	12.19	4.71	4.21	7.51	5.19	3.89	0.26	6.04	6.61	63.17
1893	1.60	6.92	2.78	7.28	8.79	4.49	2.68	1.88	4.91	1.72	2.32	3.3 ⁴	48.71
1894	5.43	7.35	4.57	3.61	2.37	2.28	5.09	5.12	2.42	0.82	1.13	4.61	44.80
1895	6.56	1.37	6.18	3.61	3.21	3.32	6.49	3.55	2.75	1.91	2.68	4.68	46.31
1896	2.71	5.51	6.58	4.10	3.86	4.17	6.43	1.82	3.13	1.46	6.83	1.68	48.28
1897	3.61	4.38	12.54	5.89	2.50	2.16	4.90	2.54	0.19	1.88	3.44	6.44	50.47
1898	8.25	1.33	4.57	4.34	2.56	3.18	6.03	3.11	3.56	3.98	3.52	2.88	47.31
1899	6.31	6.52	8.74	3.49	2.27	2.22	4.77	3.01	0.79	2.35	2.91	6.65	50.03
1900	3.31	5.10	3.86	7.90	3.67	11.87	4.64	2.22	2.74	5.97	4.95	2.86	59.09
1901	4.83	2.24	4.56	4.51	3.26	2.52	2.22	10.18	5.15	1.45	1.72	6.25	48.89
1902	5.22	3.38	7.72	3.06	2.47	2.80	2.19	3.57	5.19	2.30	5.27	6.48	49.65
1903	3.40	8.82	5.45	3.59	5.97	4.77	3.71	2.77	0.63	1.91	3.55	3.60	48.17
1904	3.34	1.66	6.69	3.15	4.14	3.28	4.08	2.99	2.21	0.86	2.87	6.04	41.31
1905	4.04	5.27	4.19	3·39	5.86	6.58	3.56	4.38	3.06	5.61	1.80	5.39	53.13
1906	4.31	1.39	6.46	1·93	3.24	2.88	8.16	3.86	7.50	4.00	5.65	5.29	54.67
1907	2.84	4.27	4.50	4·43	7.38	3.43	4.33	2.99	4.53	2.15	4.91	4.04	49.80
1908	3.80	6.04	4.93	5·40	5.15	4.27	3.41	4.20	2.53	0.76	2.72	5.14	48.35
1909	2.95	8.48	5.73	5·91	6.22	5.85	4.19	1.90	3.69	2.60	1.94	4.19	53.65
1910	4.18	4.61	0.91	4.32	5.32	5.88	7.04	2.00	2.33	4.03	1.51	4.06	46.19
1911	4.43	4.62	2.62	9.76	2.24	3.79	5.73	5.45	2.64	3.44	4.37	10.68	59.77
1912	3.93	4.51	8.70	9.57	4.13	4.19	6.31	5.17	3.62	1.94	1.32	6.37	59.76
1913	10.60	5.50	7.08	2.75	3.82	2.89	3.40	2.42	3.99	3.06	1.46	3.05	50.02
1914	2.06	3.89	4.12	4.33	1.97	2.05	3.72	5.68	2.76	2.88	2.15	7.13	42.74
1915	5.72	3.71	3.00	0.9 <u>3</u>	4.87	2.54	4.35	7.19	3.69	3.21	6.59	6.90	52.70
1916	7.31	2.83	3.02	2.92	5.57	5.81	8.94	3.73	1.55	2.14	2.04	5.41	51.27
1917	6.80	3.89	10.96	4.63	3.67	4.93	6.40	3.08	3.10	2.29	1.39	1.68	52.82
1918	7.04	2.40	1.31	6.30	3.71	3.90	3.60	1.90	3.45	6.50	2.97	4.24	47.32
1919	5.20	3.60	8.89	3.22	6.97	4.63	2.95	6.69	0.98	8.65	7.25	3.76	62.79
1920	6.30	3.60	6.64	10.27	5.60	4.69	4.33	7.13	3.00	0.75	2.94	5.38	60.63
1921	3.27	6.04	5.33	5.81	1.89	3.19	4.85	5.92	4.89	2.68	5.46	2.63	51.96
1922	5.11	4.64	10.63	5.71	5.44	4.01	4.24	2.81	1.17	1.43	2.52	8.41	56.12
1923	5.75	4.86	7.31	5.87	7.19	3.46	3.83	6.95	2.40	2.30	4.01	6.78	60.71
1924	6.00	4.61	3.56	5.83	6.05	4.09	2.62	2.78	3.05	0.05	1.04	6.34	46.02
1925	4.17	4.42	2.82	2.77	1.99	2.61	3.67	1.94	2.78	8.07	5.12	2.3 ⁴	42.70
1926	4.20	2.45	3.97	2.05	3.27	4.94	3.05	7.83	1.63	4.25	5.56	11.55	54.75
1927	3.93	3.96	8.54	7.71	4.75	5.46	2.97	3.14	2.04	2.98	5.28	6.09	56.85
1928	2.94	2.30	5.09	7.05	4.56	10.54	3.41	5.22	1.49	5.42	3.94	1.64	53.60
1929	5.51	4.84	9.36	5.76	7.52	4.52	3.83	2.07	6.02	4.32	6.86	3.62	64.23
1930	4.43	4.24	5.07	1.20	6.47	1.20	2.11	2.27	3.51	2.72	4.31	3.22	40.75
1931	2.22	4.60	4.24	2.83	2.52	1.62	4.69	4.10	1.16	2.09	4.02	9.96	44.05
1932	8.85	6.42	4.66	5.51	2.02	4.15	6.12	4.59	4.86	7.67	3.10	7.90	65.85
1933	3.10	6.77	6.34	4.45	7.71	1.55	5.85	3.48	3.08	1.54	2.37	5.00	51.24
1934	3.18	3.01	8.01	2.34	2.52	6.21	4.62	3.96	5.00	2.58	4.05	3.17	48.65
1935 1936 1937 1938 1939	5.40 4.92 13.94 5.65 6.87	3.68 3.57 1.80 11.31	8.07 6.58 2.54 6.31 5.57	4.86 5.63 5.18 5.50 5.18	5.00 1.24 5.22 5.31 4.39	4.55 1.46 3.28 5.53 6.89	2.43 8.11 4.11 6.20 3.77	2.94 1.99 4.70 4.53 3.32	1.79 3.22 2.98 1.70 1.65	4.29 4.61 5.84 0.49 0.99	5.04 3.27 2.15 4.77 1.53	2.02 6.66 3.78 2.38 3.27	50.57 51.37 57.29 50.17 54.74
1940	2.42	5.97	6.20	4.54	2.99	3.77	4.77	3.80	0.80	2.02	4.77	3.87	45.92
1941	3.24	1.15	2.72	3.29	0.99	2.50	6.96	4.30	0.87	3.79	3.16	3.43	36.40
1942	3.33	4.53	5.04	2.57	2.18	3.14	2.63	6.41	3.05	2.90	2.24	8.25	46.27
1943	1.62	2.58	6.67	3.50	3.50	2.55	3.12	2.89	6.31	0.93	2.39	3.34	39.40
1944	2.87	10.09	8.57	5.67	3.02	1.95	2.37	4.89	4.99	0.88	2.74	6.92	54.96
1945	4.91	8.42	4.87	5.75	4.84	4.46	3.18	3.52	3.27	2.78	7.43	5.46	58.89
1946	9.54	7.56	5.64	3.24	5.64	3.14	5.16	3.52	4.72	2.30	6.08	3.63	60.17
1947	8.89	1.73	3.88	4.99	5.18	4.09	2.90	2.85	1.87	2.36	5.13	2.75	46.62
1948	4.12	10.53	8.00	3.46	3.53	2.59	5.24	1.56	3.57	1.65	12.15	5.61	62.01
1949	10.88	4.15	6.32	3.56	4.28	6.86	5.24	4.07	2.43	5.72	1.10	5.09	59.70
1950	13.41	7.02	7.17	2.35	4.82	4.20	7.03	6.72	4.66	1.17	5.02	2.78	66.35
1951	7.36	6.44	7.52	4.96	0.71	6.04	4.18	1.83	4.37	2.41	6.60	10.34	62.76
1952	6.43	3.50	7.20	2.61	3.15	1.42	1.97	5.46	2.90	2.09	3.45	3.90	44.08
1953	5.84	6.95	5.77	6.37	5.30	1.99	4.98	0.90	2.78	0.50	1.15	5.43	47.96
1954	9.97	3.88	2.73	4.89	3.86	2.65	2.47	2.05	1.73	2.22	2.58	6.65	45.68
1955	2.40	7.07	8.41	6.15	5.84	2.81	4.38	2.16	1.61	2.47	3.93	2.86	50.09
1956	4.31	9.73	3.78	5.91	2.97	3.76	3.91	3.41	1.49	2.66	2.23	7.13	51.29
1957	8.66	7.25	2.92	4.58	4.88	5.56	2.86	2.23	6.22	3.64	11.29	5.15	65.24
1958	2.84	3.12	3.76	6.99	4.07	3.47	7.15	2.73	5.06	0.88	4.32	1.02	45.41
1959	5.02	4.11	4.30	4.00	4.98	3.96	5.06	4.11	2.91	4.34	3.96	6.21	52.96
1960	4.44	3.53	5.98	2.38	3.10	4.51	2.50	,4.25	4.70	3.92	3.47	3.14	45.92
1961	2.57	7.11	8.15	3.61	4.55	5.41	4.21	3.12	2.02	1.51	5.31	9.61	57.18
1962	8.48	8.53	5.51	5.51	2.11	4.60	3.38	2.06	4.75	2.80	3.72	2.69	54.14
1963	2.48	2.61	9.23	5.32	4.44	4.26	5.70	3.32	1.10	0.04	3.99	3.35	45.84
1964	5.13	4.26	9.36	9.51	3.01	2.15	5.69	4.90	3.99	3.12	4.10	5.86	61.08
1965	3.67	5.52	8.88	4.21	2.85	4.67	4.57	2.73	3.39	1.68	2.24	1.34	45.75
1966	4.63	4.99	2.19	4.16	5.75	1.96	4.22	5.07	3.73	3.47	2.83	5.48	48.48
1967	2.10	3.68	3.01	3.65	8.81	3.89	7.89	5.90	2.69	2.94	4.01	7.92	56.49
1968	5.28	1.34	5.60	4.94	5.82	1.64	3.40	2.00	3.63	2.75	4.29	4.46	45.15
1969	4.48	5.66	2.94	6.94	4.22	2.92	3.26	3.90	3.37	3.15	3.82	8.76	53.42
Mean	5.17	4.94	5.80	4.81	4.22	3.93	4.50	3.81	3.14	2.77	3.87	5.03	51.99
Median	4.56	4.52		4.52	4.18	3.84	4.23	3.50	3.05	2.44	3.64	4.84	51.26
					-	Maxim	2m M	inimum					

TABLE 4A

QUARTERLY MEAN AND MEDIAN PRECIPITATION - INCHES

FOR 35- AND 80-YEAR PERIODS

35 Years (1935-1969)

		Tennessee River Basin	Above <u>Chattanooga</u>	Below Chattanooga
JanMar.	Mean	15.87	15.08	16.77
	Median	16.73	15.76	17.65
AprJune	Mean	12.33	12.16	12.49
	Median	12.55	12.38	12.64
July-Sept.	Mean	12.10	12.96	11.13
	Median	11.88	12.73	10.69
OctDec.	Mean	11.18	10.83	11.60
	Median	10.77	10.28	11.45

80 Years (1890-1969)

		Tennessee River Basin	Above <u>Chattanooga</u>	Below Chattanooga
JanMar.	Mean	15.17	14.53	15.91
	Median	14.64	14.17	14.99
AprJune	Mean	12.80	12.67	12.96
	Median	12.56	12.42	12.79
July-Sept.	Mean	12.32	13.08	11.45
	Median	12.31	12.79	11.34
OctDec.	Mean	11.18	10.75	11.67
	Median	10.70	10.14	11.05

TABLE 5A

FISCAL- AND WATER-YEAR MEAN AND

MEDIAN PRECIPITATION - INCHES

FOR 35- AND 79-YEAR PERIODS

FISCAL-YEAR DATA

	Tennessee	Above	Below
	River Basin	Chattanooga	Chattanooga
	35 Years (July	1934-June 1969)	
Mean	51.45	51.05	51.91
Median	51.52	50.69	51.99
	79 Years (July	1890-June 1969)	
Mean	51.41	50.97	51.91
Median	52. 54	51.69	52.54

WATER-YEAR DATA

	Tennessee <u>River Basin</u>	Above <u>Chattanooga</u>	Below <u>Chattanooga</u>
	35 Years (Oct. 1	934-Sept. 1969)	
Mean	51.38	50.99	51.82
Median	50.89	50.25	51 . 2 8
	79 Years (Oct. 1	890-Sept. 1969)	
Mean	51.36	50.93	51.85
Median	51.07	50.84	51.68

TABLE 6A 35-YEAR PRECIPITATION DATA SELECTED WATERSHED SUBDIVISIONS IN THE TENNESSEE RIVER BASIN 1935-1969

	Subdivision Area	Drainage				Mear	n. Media	an. Max	imum ar	ıd Minir	num Pred	cipitati	on in I	nches		
Stream Name	Above	Area sq. mi.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Tennessee River	Kentucky Dam, Ky.	40,200	Mean Median Maximum Year Minimum Year	5.2 4.8 11.9 1937 2.3 1940	5.1 4.6 10.0 1939 1.1 1968	5.5 5.2 9.8 1963 2.3 1937	4.5 4.6 8.2 1964 1.7 1942	4.0 3.9 7.5 1967 0.9 1941	3.9 3.9 6.1 1957 1.6 1936	5.0 4.8 8.4 1967 2.4 1957	4.0 3.7 7.0 1942 1.5 1953	3.2 3.2 7.1 1957 0.9 1940	2.7 2.7 6.0 1937 T 1963	3.9 3.7 11.2 1948 1.4 1939	4.6 4.1 9.7 1961 0.9 1965	51.6 51.3 64.5 1957 38.0 1941
Tennessee River	New Johnsonville, Tenn.	38,520	Mean Median Maximum Year Minimum Year	5.3 4.6 11.5 1937 2.3 1940	5.2 4.5 10.1 1939 1.0 1968	5.5 5.2 9.9 1963 2.3 1937	4.5 4.6 8.3 1964 1.5 1942	3.9 3.9 7.5 1967 0.8 1941	3.9 3.9 6.0 1957 1.6 1936	5.0 4.9 8.5 1967 2.2 1957	4.0 3.7 7.0 1942 1.5 1953	3.2 3.2 7.2 1957 0.9 1940	2.7 2.6 6.0 1937 T 1963	3.9 3.7 11.2 1948 1.3 1939	4.6 4.1 9.8 1961 0.9 1965	51.7 51.5 64.3 1957 38.2 1941
Tennessee River	Pickwick Dam, Tenn.	32,820	Mean Median Maximum Year Minimum Year	5.2 4.3 10.9 1937 2.3 1940	5.1 4.6 10.1 1939 1.0 1968	5.5 5.1 10.2 1963 2.4 1937	4.4 4.6 8.0 1964 1.2 1942	3.9 3.8 7.0 1967 0.8 1941	4.0 3.8 6.0 1957 1.6 1936	5.2 5.0 8.8 1967 2.1 1957	4.1 3.8 7.2 1942 1.6 1953	3.3 3.2 7.4 1957 0.9 1940	2.7 2.6 6.1 1937 T 1963	3.8 3.5 11.2 1948 1.2 1939	4.6 4.0 10.2 1961 0.8 1965	51.8 52.4 64.0 1957 39.1 1941
Tennessee River	Wilson Dam, Ala.	30,750	Mean Median Maximum Year Minimum Year	1937	5.1 4.6 10.0 1939 1.0 1968	5.5 5.0 10.3 1963 2.3 1937	4.4 4.5 7.9 1964 1.1 1942	3.9 3.8 6.9 1967 0.8 1941	4.0 3.9 6.0 1961 1.6 1936	5.2 5.1 8.9 1941 2.0 1957	4.1 3.9 7.3 1942 1.7 1953	3·3 3·3 7·6 1957 0·9 1940	2.8 2.6 6.1 1949 T 1963	3.8 3.5 11.1 1948 1.2 1939	4.6 4.0 10.1 1961 0.7 1965	51.8 52.5 64.0 1957 39.2 1941
Tennessee River	Wheeler Dam, Ala.	29,590	Mean Median Maximum Year Minimum Year	1937	5.1 4.7 10.0 1939 1.0 1968	5.5 5.0 10.4 1963 2.3 1937	4.4 4.5 7.9 1964 1.0 1942	3.9 3.8 6.9 1967 0.8 1941	4.0 4.0 6.0 1957 1.6 1936	5.2 5.1 8.9 1967 2.0 1957	4.1 3.9 7.4 1942 1.7 1953	3.3 3.3 7.6 1957 0.9 1940	2.8 2.6 6.1 1949 T 1963	3.8 3.4 11.1 1948 1.2 1939	4.5 4.0 10.1 1961 0.7 1965	51.7 52.4 64.1 1957 39.2 1941
Tennessee River	Decatur, Ala.	26,900	Mean Median Maximum Year Minimum Year	5.1 4.2 10.7 1937 2.4 1940	5.0 4.7 9.7 1939 0.9 1968	5.4 5.1 10.3 1963 2.2 1937	4.3 4.4 7.7 1964 1.0 1942	3.9 3.7 6.6 1967 0.8 1941	4.0 4.1 6.2 1957 1.6 1936	5.3 5.1 9.0 1967 2.0 1957	4.2 3.9 7.4 1942 1.8 1953	3.4 7.6 1957 0.9 1940	2.8 2.5 6.2 1949 T 1963	3.8 3.4 11.0 1948 1.2 1939	4.5 3.9 10.1 1961 0.6 1965	51.6 52.0 64.0 1957 39.3 1941
Tennessee River	Suntersville Dam, Ala.	24,450	Mean Median Maximum Year Minimum Year	5.0 4.1 10.6 1937 2.3 1940	5.0 4.7 9.5 1944 0.9 1968	5.4 5.2 10.4 1963 2.2 1937	4.3 4.2 7.3 1964 1.0 1942	3.6 6.5 1967 0.8 1941	4.1 4.2 6.4 1957 1.7 1936	5.4 5.1 9.2 1941 2.0 1957	4.2 4.0 7.5 1942 1.9	3.3 3.3 7.8 1957 0.9 1940	2.8 2.5 6.4 1949 T 1963	3.7 3.4 10.8 1948 1.2 1939	4.4 3.9 10.0 1961 0.6 1965	51.4 52.0 64.5 1957 39.4 1941
Tennessee River	Nickajack Dam, Tenn.	21,870	Mean Median Maximum Year Minimum Year	4.9 4.0 10.3 1947 2.2 1940	4.9 4.7 9.4 1944 0.8 1968	5.3 5.0 10.3 1963 2.1 1937	4.2 4.2 6.9 1964 1.0 1942	3.8 3.6 6.6 1950 0.8 1941	4.1 4.2 6.6 1957 1.7 1936	5.4 5.1 9.3 1941 2.0 1957	4.3 4.1 7.8 1940 1.9	3.3 3.2 7.7 1957 0.9 1940	2.8 2.5 6.2 1949 T 1963	3.7 3.3 10.3 1948 1.2 1939	4.3 3.8 9.7 1961 0.5 1965	51.0 52.0 64.1 1957 39.2 1941
Tennessee River	Chickamauga Dam, Tenn.	20,790	Mean Median Maximum Year Minimum Year	1937	4.8 4.6 9.3 1944 0.8 1968	5.3 4.9 10.3 1963 2.0 1937	4.2 4.2 6.7 1964 1.0 1942	3.9 3.6 6.8 1950 0.8 1941	4.1 4.3 6.6 1957 1.6 1936	5.4 5.1 9.3 1941 2.0 1957	4.3 4.1 8.0 1940 2.0 1953	3.2 3.1 7.5 1957 0.9 1940	2.8 2.5 6.2 1937 T 1963	3.7 3.2 10.1 1948 1.2 1939	4.3 3.8 9.5 1961 0.5 1965	50.9 52.0 63.9 1957 39.0 1941
Tennessee River	Watts Bar Dam, Tenn.	17,310	Mean Median Maximum Year Minimum Year	1937	4.7 4.4 8.9 1944 0.8 1968	5.1 4.7 10.0 1963 1.0 1937	4.0 4.0 6.3 1958 1.0 1942	3.8 3.6 7.0 1950 0.8 1941	4.1 4.2 6.6 1957 1.6 1936	5.4 5.2 9.2 1941 2.1 1957	4.3 4.1 8.4 1940 1.9 1953	3.2 2.9 7.2 1944 1.0 1940	2.8 2.6 6.2 1937 T 1963	3.5 3.2 9.3 1948 1.2 1939	4.2 3.6 8.8 1961 0.5 1965	49.8 50.4 62.6 1957 37.9 1941
Tennessee River	Fort Loudoun Dam, Tenn.	9,550	Mean Median Maximum Year Minimum Year	1947	4.3 4.2 8.0 1944 0.7 1968	4.8 4.5 9.5 1963 1.6 1937	3.8 3.8 6.0 1957 1.0 1942	1.0	4.1 4.2 6.7 1957 1.9 1964	5.4 5.1 8.6 1941 2.2 1957	4.4 3.9 9.5 1940 2.0 1953	3.2 2.9 6.6 1944 1.0 1940	2.8 2.7 6.4 1937 0.1 1963	3.3 3.0 8.0 1948 1.2 1939	3.7 3.4 8.2 1961 0.4 1965	47.8 48.8 60.3 1957 35.0 1941
Tennessee River	Knoxville, Tenn.	8,900	Mean Median Maximum Year Minimum Year	1947	4.2 4.2 7.8 1944 0.7 1968	4.8 4.4 9.4 1963 1.6 1937	3.8 3.8 6.1 1957 1.0 1942	1.0	4.0 4.2 6.8 1957 1.9	5.4 5.1 8.6 1941 2.3 1957	4.4 3.9 9.7 1940 2.0 1953	3.2 2.9 6.4 1957 0.9 1940	2.8 2.6 6.6 1937 0.1 1963	3.2 2.9 7.7 1948 1.2 1939	3.7 3.4 8.0 1961 0.4 1965	47.5 48.2 59.9 1957 34.6 1941
Big Sandy River	Bruceton, Tenn.	205	Mean Median Maximum Year Minimum Year	1937	4.8 4.4 11.1 1939 0.7 1947	5.6 6.0 9.8 1948 0.7 1941	4.7 4.6 8.5 1944 1.9 1936	0.2	4.0 3.8 8.2 1945 0.6 1952	4.0 3.4 8.5 1950 0.9 1943	3.4 3.3 10.4 1964 0.2 1953	3.3 3.1 7.2 1943 0.3 1941	2.6 2.4 5.9 1937 0.0 1963	4.3 3.6 11.2 1948 1.0 1949	4.5 4.2 9.2 1951 1.0 1958	51.4 50.4 73.8 1950 30.6 1941

Subdivision Area Drainage Mean, Median, Maximum and Minimum Precipitation in Inches																
Stream Name	Above Above	Area sq. mi.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Duck River	Mouth at Tennessee River	3,500	Mean Median Maximum Year Minimum Year	5.7 5.0 15.7 1950 1.6 1943	5.2 4.6 11.6 1948 1.0 1941	5.5 5.8 9.8 1955 1.9	4.6 4.8 10.2 1964 2.1 1950	4.2 4.0 10.3 1967 0.7 1951	3.7 3.4 7.9 1949 1.3 1952	4.2 4.2 8.5 1936 2.1 1952	3.6 3.2 7.2 1942 0.7 1953	3.0 2.8 7.6 1944 0.4 1941	2.5 2.4 6.0 1949 T 1963	4.1 3.8 11.2 1948 1.0 1949	4.7 4.1 10.5 1951 0.8 1958	51.0 50.4 66.0 1950 33.9 1941
Duck River	Hurricane Mills, Tenn.	2,557	Mean Median Maximum Year Minimum Year	5.7 4.9 15.9 1950 1.6 1943	5.3 4.5 11.7 1948 1.1 1941	5.5 5.8 9.8 1955 1.9	4.6 4.6 10.1 1964 1.9	4.1 3.9 10.4 1967 0.8 1951	3.6 3.3 8.2 1949 1.2 1936	4.3 4.2 8.7 1936 2.0 1944	3.6 3.2 7.2 1942 0.6 1953	3.0 2.6 8.0 1944 0.4 1941	2.5 2.5 6.1 1949 0.0 1963	4.0 3.9 10.9 1948 0.9 1949	4.6 4.0 10.4 1951 0.8 1958	50.8 50.6 65.0 1950 34.2 1941
Duck River	Columbia, Tenn.	1,208	Mean Median Maximum Year Minimum Year	5.6 4.5 16.6 1950 1.4 1943	5.5 4.4 12.6 1948 1.2 1941	5.5 5.6 10.0 1955 1.9 1966	4.5 4.5 10.4 1964 1.4 1950	4.2 4.2 10.7 1967 1.0 1936	3.7 3.4 9.1 1939 0.5 1936	4.5 4.5 8.8 1936 1.4 1957	3.5 3.1 7.7 1942 0.7 1936	3.4 3.0 9.9 1944 0.7 1941	2.6 2.5 5.9 1949 0.0 1963	4.1 3.6 10.6 1948 0.8 1953	4.7 4.0 9.9 1951 0.8 1958	51.8 51.7 64.6 1950 36.9 1941
Buffalo River	Lobelville, Tenn.	707	Mean Median Maximum Year Minimum Year	5.8 4.8 15.6 1950 1.4 1963	5.4 5.0 12.5 1948 1.0 1941	5.6 5.6 10.0 1965 1.9	4.8 4.6 11.1 1964 2.4 1950	4.3 4.1 10.2 1967 0.4 1951	3.4 9.2 1957 0.8 1952	4.1 4.2 8.1 1936 1.4 1943	3.7 3.5 7.8 1944 0.8 1948	2.8 2.4 7.2 1943 0.3 1941	2.6 2.1 6.0 1949 T 1963	4.4 4.0 12.3 1948 1.1 1953	4.9 4.5 10.7 1951 0.8 1958	52.1 50.6 69.6 1957 32.6 1941
Bear Creek	Bishop, Ala.	668	Mean Median Maximum Year Minimum Year	5.7 4.9 14.3 1949 1.2 1943	5.8 5.1 12.1 1939 1.3 1938	6.2 5.9 11.6 1944 1.6 1967	5.1 5.2 9.8 1956 2.2 1946	4.1 3.7 8.5 1963 0.7 1951	3.5 3.5 10.3 1939 1.0 1952	4.5 4.5 8.0 1967 1.4 1952	3.8 3.7 8.8 1950 0.6 1953	3.0 3.1 7.1 1958 0.4 1955	2.6 2.1 7.4 1960 0.0 1963	4.2 3.9 11.7 1957 0.6 1953	5.3 4.6 12.6 1951 0.8 1958	53.8 52.8 70.8 1950 35.9 1943
Bear Creek	Bear Creek Dam, Ala.	231	Mean Median Maximum Year Minimum Year	5.9 5.1 15.6 1949 1.1 1943	5.8 5.0 11.9 1939 1.6 1938	6.2 5.7 11.6 1944 1.2 1967	5.2 5.5 10.7 1964 1.3 1942	4.1 3.8 9.2 1963 0.7 1951	3.9 4.0 8.7 1939 1.0 1968	4.8 4.9 10.4 1938 1.1 1952	4.0 3.8 8.2 1950 1.1 1953	3.3 3.2 7.4 1958 0.2 1955	2.7 2.2 7.8 1937 0.0 1963	4.2 4.0 11.8 1957 0.6 1953	5.4 4.6 13.8 1951 1.0 1958	55.5 55.7 69.2 1950 38.5 1943
Shoal Creek	Iron City, Tenn.	352	Mean Median Maximum Year Minimum Year	1950	5.9 5.1 12.8 1948 1.1 1941	5.9 6.0 11.5 1955 1.8 1966	4.9 4.8 11.4 1964 2.5 1950	4.2 3.9 9.4 1967 0.6 1951	3.5 3.4 7.9 1939 0.7 1952	4.4 3.8 10.6 1941 1.6 1960	3.7 3.5 7.6 1966 0.9 1948	3.0 2.9 6.9 1943 0.4 1941	2.7 2.2 7.0 1949 T	4.5 3.8 12.8 1957 0.9 1949	5.2 4.6 10.2 1951 1.1 1958	53.6 53.4 75.4 1950 37.4 1943
Elk River	Prospect, Tenn.	1,784	Mean Median Maximum Year Minimum Year	5.7 4.6 16.2 1950 1.8 1943	5.7 4.9 13.3 1939 1.3 1941	5.9 5.9 11.0 1963 2.2 1966	4.7 4.7 10.2 1964 1.6 1942	4.2 4.3 10.1 1967 0.8 1951	3.7 3.4 7.8 1939 0.6 1936	4.9 4.6 12.0 1936 1.8 1957	3.6 3.4 8.5 1942 1.4 1953	3.5 3.0 7.9 1957 0.8 1940	2.7 2.7 5.6 1949 T 1963	4.3 3.7 11.6 1957 1.0 1953	5.1 4.7 10.4 1951 1.0 1958	54.0 54.6 67.1 1950 39.7 1941
Elk River	Fayetteville, Tenn.	827	Mean Median Maximum Year Minimum Year	1950	5.6 4.9 13.8 1939 1.1 1941	5.8 5.6 11.0 1963 2.7 1966	4.7 4.8 9.5 1964 1.3 1942	4.1 4.3 9.8 1967 0.8 1936	4.0 3.8 8.1 1961 0.2 1936	5.0 4.4 11.9 1936 1.2 1957	3.5 3.5 9.0 1942 1.4 1953	3.6 3.2 7.1 1957 0.7 1940	2.7 2.6 6.1 1949 T 1963	4.2 3.6 12.2 1957 1.3 1949	5.1 4.3 10.5 1942 1.0 1965	54.0 54.1 67.9 1957 40.1 1941
Elk River	Tims Ford Dam, Tenn.	529	Mean Median Maximum Year Minimum Year	5.8 4.9 15.4 1950 2.0 1940	5.8 4.9 14.5 1939 1.2 1941	6.0 5.9 10.6 1963 2.8 1937	4.9 5.0 9.4 1964 1.5 1942	4.2 4.2 9.4 1967 0.8 1936		5.2 4.7 11.4 1936 1.3 1957	3.7 3.6 8.9 1942 1.1 1953	3.5 3.0 7.6 1957 0.8 1940	2.7 2.4 6.9 1949 T 1963	4.4 3.6 12.3 1957 1.3 1949	5.3 4.4 10.8 1942 1.0 1958	55.6 54.9 72.1 1957 41.0 1941
Flint River	Chase, Ala.	342	Mean Median Maximum Year Minimum Year	1949	5.5 4.9 13.5 1939 1.0 1968	5.8 5.5 13.0 1963 1.9	4.7 4.3 10.5 1964 1.5 1960	4.0 3.9 9.8 1967 0.8 1951	3.1 8.9 1961 0.8	4.9 4.4 13.1 1936 1.1 1957	3.2 2.6 6.0 1942 0.8 1953	3.3 3.3 7.4 1943 0.7 1940	2.6 2.3 5.4 1937 T 1963	4.2 3.8 12.3 1948 1.0 1953	5.0 4.1 10.7 1951 0.9 1958	52.5 52.0 65.4 1967 37.4 1941
Paint Rock River	Woodville, Ala.	320	Mean Median Maximum Year Minimum Year	1949	5.9 5.3 15.1 1939 1.1 1941	6.2 5.9 13.2 1963 2.2 1954	5.0 4.9 11.3 1964 1.2 1942	4.2 4.2 8.4 1967 0.9 1951	9.1 1949 0.9	5.0 4.8 9.8 1950 1.4 1957	3.6 3.6 8.1 1942 0.8 1953	3.7 3.4 8.2 1953 0.3 1955	2.5 2.5 6.1 1949 0.1 1963	4.4 3.8 14.4 1948 1.4 1949	5.4 4.4 12.1 1961 1.0 1965	55.7 54.9 70.7 1949 38.4 1941
Sequatchie River	Whitwell, Tenn.	402	Mean Median Maximum Year Minimum Year	1937	5.6 5.3 12.1 1939 0.7 1941	6.1 5.9 11.2 1963 2.1 1937	4.8 4.8 10.4 1964 1.2 1942	3.9 3.9 7.2 1938 0.7 1941	4.0 6.8 1938	5.4 5.3 9.2 1967 1.5 1952	4.0 4.3 7.8 1942 1.6 1951	3.3 2.8 9.3 1960 0.6 1940	2.8 2.6 7.2 1949 0.0 1963	4.2 3.4 14.2 1948 1.1 1939	5.3 4.7 12.8 1942 0.9 1965	55.2 54.5 72.5 1957 39.6 1968

	Subdivision Area	Drainage				Мааг	. Madis	n May	imum ar	d Minie	nım Prez	cipitatio	on in Tr	ohas		
Stream Name	Above	Area sq. mi.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
South Chickamauga Creek	Chickamauga, Tenn.	428	Mean Median Maximum Year Minimum Year	5.5 4.8 11.7 1947 2.3 1943	5.6 4.7 12.3 1939 1.0 1941	5.7 5.1 11.1 1964 1.4 1967	4.8 4.4 10.0 1964 0.6 1942	3.8 3.5 8.7 1946 0.5 1936	3.9 3.6 9.4 1938 1.0 1966	5.0 4.4 11.7 1967 1.4 1957	3.8 3.5 8.0 1942 1.3 1963	3.6 3.2 10.8 1957 0.3 1935	2.9 2.7 9.7 1949 0.1 1963	3.9 3.5 14.6 1948 0.9 1939	4.9 4.3 13.8 1961 0.9 1965	53.4 52.7 66.8 1964 41.1 1968
Hiwassee River	Charleston, Tenn.	2,298	Mean Median Maximum Year Minimum Year	5.8 5.1 13.1 1947 2.6 1955	5.8 5.4 11.7 1944 1.1 1941	6.2 5.6 11.3 1964 2.3 1967	5.1 4.8 9.6 1964 0.9 1942	0.7	4.3 4.3 7.5 1961 1.7 1964	5.7 5.2 11.4 1938 1.9 1957	4.7 4.2 10.4 1967 2.0 1963	3.5 3.5 7.6 1957 0.8 1940	3.1 2.7 8.6 1949 0.0 1963	4.2 3.7 13.5 1948 1.2 1939	5.1 4.4 13.6 1961 0.7 1965	57.6 56.7 71.4 1964 45.1 1941
Hiwassee River	Reliance, Tenn.	1,181	Mean Median Maximum Year Minimum Year	5.8 5.3 12.9 1947 2.6 1955	5.9 5.8 11.8 1944 1.1 1941	6.2 5.6 11.2 1964 2.3 1967	5.2 4.9 9.3 1964 0.9 1942	4.1 3.8 7.8 1946 0.8 1941	4.5 4.6 7.6 1961 1.6 1964	5.9 5.5 11.9 1938 1.6 1952	4.9 4.3 11.0 1967 1.7 1951	3.6 3.8 6.8 1951 0.8 1940	3.1 3.0 8.9 1964 0.0 1963	4.1 3.7 13.1 1948 1.1 1939	5.1 4.4 13.2 1961 0.6 1965	58.4 57.7 73.8 1964 46.2 1941
Hiwassee River	Hiwassee Dam, N. C.	968	Mean Median Maximum Year Minimum Year	5.8 5.2 12.7 1947 2.4 1956	5.9 5.7 11.8 1944 1.2 1941	6.3 5.7 11.5 1964 2.5 1967	5.2 5.1 9.0 1964 0.9 1942	4.1 3.9 8.0 1946 0.7 1941	4.6 4.5 8.0 1951 1.6 1964	6.0 5.7 12.5 1938 1.9 1957	5.0 4.3 11.6 1967 1.4 1951	3.7 3.9 6.6 1951 0.9 1954	3.2 2.8 9.5 1964 0.0 1963	4.1 3.8 13.2 1948 1.0 1939	5.1 4.4 13.1 1961 0.6 1965	59.0 58.5 74.9 1964 46.5 1941
Hiwassee River	Murphy, N. C.	421	Mean Median Maximum Year Minimum Year	5.6 5.1 11.9 1936 2.1 1956	5.7 5.8 11.4 1944 1.2 1941	6.1 5.6 11.1 1964 2.5 1967	5.2 5.1 8.9 1957 1.0 1942	4.1 3.8 8.2 1959 0.6 1941	4.6 4.6 8.4 1949 1.4 1964	5.9 5.6 12.9 1938 1.3 1957	5.0 4.8 12.1 1967 1.2 1951	3.8 4.0 7.2 1936 0.9 1940	3.3 2.8 10.2 1964 T 1963	3.9 3.7 13.2 1948 0.9 1939	5.0 4.4 12.7 1961 0.6 1965	58.2 57.5 72.9 1964 45.0 1941
Hiwassee River	Chatuge Dam, N. C.	189	Mean Median Maximum Year Minimum Year	5.8 5.4 12.4 1936 2.0 1956	5.9 5.7 11.6 1939 1.2 1968	6.4 5.8 12.3 1952 2.9 1967	5.6 5.5 10.3 1957 1.1 1942		4.8 4.5 10.2 1949 1.1 1964	6.1 5.4 13.8 1938 1.8 1957	5.5 5.2 14.5 1967 1.4 1951	4.3 4.3 8.5 1936 0.7 1954	3.6 3.1 10.7 1964 T 1963	4.2 3.8 14.6 1948 0.8 1939	5.2 5.1 12.6 1961 0.6 1965	61.8 61.1 76.6 1964 48.2 1941
Ocoee River	Parksville Dam, Tenn.	595	Mean Median Maximum Year Minimum Year	6.1 5.1 13.9 1947 2.6 1956	6.2 5.6 12.4 1944 1.2 1941	6.5 5.8 12.7 1967 2.5 1967	5.5 5.1 9.8 1936 0.9 1942	0.8	4.5 4.1 9.2 1961 1.8 1966	5.8 5.3 13.8 1938 1.5 1952	4.8 3.8 11.8 1967 1.0 1963	3.7 4.0 9.1 1957 0.7 1935	3.3 2.9 10.2 1964 T 1963	4.3 3.9 14.5 1948 0.9 1939	5.5 4.8 14.6 1961 0.8 1965	60.4 59.8 76.8 1957 46.9 1941
Toccoa River	Blue Ridge Dam, Ga.	232	Mean Median Maximum Year Minimum Year	6.3 5.3 14.0 1936 2.4 1956	6.5 6.2 12.7 1939 1.4 1941	6.8 6.3 13.8 1964 3.2 1937	5.8 5.5 11.1 1957 1.1 1942	4.5 4.3 10.8 1946 0.8 1941	4.5 4.3 9.7 1961 1.4 1944	6.0 5.7 14.4 1938 1.4 1952	5.2 4.4 15.3 1967 0.8 1963	3.8 4.1 8.4 1957 0.8 1935	3.5 3.1 11.8 1964 T	4.4 4.0 15.0 1948 0.8 1939	5.8 5.1 14.4 1961 1.0 1965	63.1 62.2 81.4 1964 47.2 1941
Toccoa River	Dial, Ga.	177	Mean Median Maximum Year Minimum Year	6.4 5.4 13.9 1936 2.5 1956	6.7 6.5 13.4 1939 1.5 1941	7.0 6.3 14.1 1964 3.5 1967	6.0 5.4 11.8 1957 1.1 1942	4.7 4.4 11.1 1946 1.0 1941	4.6 4.6 9.4 1963 1.5 1966	6.3 6.0 14.9 1938 1.6 1952	5.4 5.0 15.8 1967 0.6 1963	4.0 4.1 8.2 1957 1.0 1935	3.7 3.4 11.4 1964 T 1938	4.6 4.1 15.4 1948 0.8 1939	6.0 5.9 14.5 1961 1.0 1965	65.4 64.9 82.0 1964 50.4 1941
Nottely River	Nottely Dam, Ga.	214	Mean Median Maximum Year Minimum Year	5.4 4.9 11.4 1947 2.2 1956	5.6 5.5 11.1 1944 1.2 1941	6.1 5.8 12.8 1964 2.6 1967	5.2 4.9 9.3 1957 1.0 1942		4.4 4.2 8.4 1963 1.6 1966	5.8 5.6 14.0 1938 2.0 1947	4.9 4.4 15.1 1967 1.0 1951	3.6 3.9 6.9 1953 0.8 1935	3.1 2.6 11.3 1964 0.0 1963	3.8 3.4 12.9 1948 0.8 1939	4.8 4.2 12.7 1961 0.7 1965	56.7 55.4 78.2 1964 44.9 1935
Valley River	Tomotla, N. C.	104	Mean Median Maximum Year Minimum Year	1947	6.9 6.7 14.1 1944 1.3 1941	7.0 6.6 13.6 1963 3.2 1967	5.6 5.5 10.0 1936 0.8 1942	4.5 4.5 8.4 1938 0.7 1941	1.6	6.5 6.1 11.3 1943 1.5 1952	5.2 5.0 9.2 1942 1.5 1951	3.7 3.3 6.9 1944 0.6 1954	3.3 2.8 8.8 1949 0.0 1963	4.7 4.6 14.8 1948 1.4 1937	6.0 5.6 14.6 1961 0.8 1965	65.3 66.0 81.4 1957 53.8 1941
Sewee Creek	Decatur, Tenn.	117	Mean Median Maximum Year Minimum Year	1937	5.4 5.0 12.1 1939 0.7 1941	5.7 5.5 11.6 1963 2.1 1957	4.4 9.0 1958 1.3 1950	3.6 3.7 7.6 1938 0.7 1941	3.7 3.4 6.6 1941 0.7 1936	5.3 5.0 15.0 1967 1.0 1954	3.7 3.3 9.2 1942 0.8 1956	3.2 2.5 14.4 1957 0.5 1935	2.8 2.7 7.2 1949 T 1963	4.0 3.2 14.3 1948 0.8 1937	5.1 4.1 12.0 1942 0.7 1965	52.3 52.5 67.2 1957 36.6 1968
Clinch River	Norris Dam, Tenn.	2,912	Mean Median Maximum Year Minimum Year	1937	4.3 3.8 8.8 1944 0.7 1968	4.9 4.5 10.1 1963 1.8 1937	3.7 3.7 6.8 1958 0.6 1942	0.5	4.0 4.1 6.1 1969 1.3 1936	5.2 5.0 8.7 1967 1.8 1944	3.9 3.6 7.8 1942 1.5 1953	2.9 2.3 7.3 1957 1.0 1935	2.4 2.2 6.1 1937 T 1963	3.3 3.1 7.8 1948 1.0 1939	3.9 3.4 7.8 1969 0.4 1965	46.7 48.6 56.2 1957 35.5 1941

Subdivision Area Drainage Mean, Median, Maximum and Minimum Precipitation in Inches																
Stream Name	Above	Area sq. mi.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Clinch River	Tazewell, Tenn.	1,474	Mean Median Maximum Year Minimum Year	4.0 3.2 9.2 1937 1.7 1940	3.9 3.6 8.2 1944 0.6 1968	4.5 4.2 10.1 1955 1.7 1937	3.5 3.5 6.0 1958 0.5 1942	3.9 3.6 8.6 1950 0.6 1941	3.9 3.8 6.0 1953 1.3 1936	5.3 5.0 8.4 1966 2.2 1944	4.1 3.8 7.9 1942 1.3 1953	2.9 2.6 6.7 1957 1.1 1939	2.4 2.3 6.8 1937 T 1963	3.1 2.7 6.1 1948 0.8 1939	3.5 3.1 6.6 1969 0.4 1965	45.0 46.1 53.3 1957 34.7 1941
Emory River	Oakdale, Tenn.	764	Mean Median Maximum Year Minimum Year	5.4 4.6 13.7 1950 2.0 1940	5.2 4.3 12.8 1939 0.7 1968	5.5 5.6 9.5 1963 2.2 1937	4.4 4.1 7.7 1964 0.9 1942	3.9 3.9 7.4 1950 0.7 1941	4.0 4.4 7.1 1969 1.0 1936	5.0 4.9 11.7 1967 1.4 1952	4.0 4.1 8.9 1942 1.8 1953	3.3 2.6 11.3 1944 0.6 1935	2.7 2.5 6.0 1949 0.0 1963	4.0 3.8 12.1 1948 1.2 1937	5.1 4.0 12.0 1942 0.6 1965	52.5 52.1 68.0 1957 40.5 1968
Powell River	Arthur, Tenn.	685	Mean Median Maximum Year Minimum Year	4.9 4.4 12.2 1937 1.8 1940	4.6 4.2 9.9 1944 0.8 1968	5.2 4.8 12.0 1963 1.8 1969	3.9 4.0 7.3 1958 0.6 1942	3.9 3.5 7.4 1950 0.3 1941	4.2 4.1 6.6 1947 1.6 1936	5.5 5.4 10.1 1941 1.6 1944	4.0 3.7 8.4 1942 1.5 1951	2.9 2.2 7.7 1957 0.5 1935	2.4 2.1 6.0 1949 T 1963	3.6 3.3 8.1 1948 1.0 1939	4.2 3.6 8.7 1969 0.5 1965	49.3 50.8 58.7 1957 38.0 1941
Little Tennessee River	McGhee, Tenn.	2,443	Mean Median Maximum Year Minimum Year	5.9 5.2 13.3 1947 2.4 1955	6.0 5.6 12.0 1944 1.3 1941	6.4 6.0 12.0 1963 2.8 1937	5.0 4.9 9.4 1964 1.2 1942	4.2 4.1 7.4 1938 0.8 1941	4.7 4.3 8.4 1957 1.8 1936	6.0 5.5 10.7 1941 1.8 1957	5.0 4.5 10.3 1940 2.0 1951	3.6 3.9 6.4 1957 0.8 1940	3·3 3·0 7·8 1959 T 1963	4.3 3.9 12.8 1948 1.3 1939	5.2 4.7 13.1 1961 0.7 1965	59.6 60.0 75.3 1957 46.3 1941
Little Tennessee River	Calderwood Dam, Tenn.	1,856	Mean Median Maximum Year Minimum Year	6.1 5.0 13.5 1947 2.5 1955	6.1 6.0 12.2 1944 1.3 1941	6.6 6.1 12.0 1963 2.6 1937	5.1 5.0 9.4 1964 1.2 1942	4.2 7.1 1938 0.9 1941	4.7 4.5 8.6 1949 2.0 1964	6.0 5.7 11.2 1941 1.8 1957	5.2 4.6 11.6 1940 2.0 1951	3.8 3.9 6.9 1936 0.8 1940	3.4 3.0 8.4 1964 T	4.3 4.2 13.3 1948 1.2 1939	5.3 5.0 13.1 1961 0.7 1965	60.8 61.3 77.0 1964 47.1 1941
Little Tennessee River	Fontana Dam, N. C.	1,571	Mean Median Maximum Year Minimum Year	6.0 4.9 13.2 1947 2.4 1956	6.1 5.9 12.0 1944 1.3 1941	6.5 6.1 11.9 1963 2.6 1937	5.0 5.0 9.4 1964 1.2 1942	4.2 4.0 7.3 1955 1.0 1941	4.7 4.5 8.8 1949 2.0 1964	6.0 5.6 11.3 1941 1.8 1957	5.2 4.5 12.5 1940 2.0 1951	3.9 3.9 7.3 1936 0.8 1940	3.4 3.0 8.8 1964 T 1963	4.2 13.4 1948 1.2 1939	5.3 5.0 12.8 1961 0.7 1965	60.5 60.6 77.2 1964 46.9 1941
Little Tennessee River	Needmore, N. C.	436	Mean Median Maximum Year Minimum Year	6.0 5.4 13.1 1936 2.2 1956	6.2 5.9 12.4 1939 1.2 1941	6.6 6.3 12.6 1952 2.5 1937	5.3 5.2 9.6 1964 1.0 1942	4.1 3.6 8.8 1955 1.0 1941	4.9 4.4 10.0 1949 1.9	5.9 5.6 11.0 1941 1.6 1957	5.3 4.5 14.0 1940 1.8 1951	4.2 4.3 8.8 1936 0.8 1954	3.6 3.0 11.2 1964 0.1 1963	4.3 4.1 14.8 1948 1.0 1939	5.5 5.0 12.8 1961 0.7 1965	61.9 60.1 82.7 1964 46.9 1941
Cheoah River	Santeetlah Dam, N. C.	176	Mean Median Maximum Year Minimum Year	7.0 5.7 15.8 1947 2.8 1955	6.8 6.8 13.5 1944 1.2 1941	7.2 6.7 14.5 1963 2.8 1967	5.5 5.4 10.6 1964 1.0 1942	4.6 4.6 9.0 1938 0.6 1941	5.1 4.7 9.6 1957 1.9	6.4 6.2 11.1 1941 2.2 1957	5.1 4.5 9.4 1938 2.0 1951	3.4 7.4 1944 0.8 1940	3.4 3.0 9.3 1949 0.0 1963	5.0 4.6 13.2 1948 1.3 1939	6.1 5.6 15.6 1961 1.1 1965	65.9 66.5 87.6 1957 51.3 1941
Nantahala River	Nantahala, N. C.	144	Mean Median Maximum Year Minimum Year	6.9 6.2 15.8 1947 2.5 1956	7.0 6.4 13.8 1944 1.4 1941	7.1 6.8 13.4 1963 3.0 1937	5.6 5.5 10.0 1964 1.2 1942	4.6 4.4 8.8 1959 0.9 1941	5.0 4.6 9.4 1949 1.8 1936	6.3 5.4 12.1 1941 2.1 1952	5.3 5.0 11.2 1967 1.3 1951	4.1 4.2 6.9 1945 0.8 1954	3.6 3.2 9.9 1964 0.0 1963	4.6 4.6 13.4 1948 1.2 1939	6.0 5.6 15.3 1961 1.0 1965	66.1 65.2 87.7 1957 48.1 1935
Tuckasegee River	Bryson City, N. C.	655	Mean Median Maximum Year Minimum Year	5.7 5.0 12.6 1947 2.1 1955	5.8 5.7 11.5 1944 1.2 1941	6.3 5.9 11.8 1963 2.4 1937	4.8 9.1 1964 1.3 1942	4.2 3.9 7.6 1959 1.0 1941	4.6 4.8 8.3 1949 2.1 1964	6.0 6.0 12.2 1941 1.7 1957	5.4 4.3 13.9 1940 2.1 1956	3.8 3.8 7.2 1936 0.8 1935	3.5 3.0 8.3 1964 T 1963	4.1 3.9 13.0 1948 1.2 1939	5.1 4.8 12.2 1961 0.6 1965	59·3 57·7 75·1 1964 46.8 1941
Tuckasegee River	Dillsboro, N. C.	347	Mean Median Maximum Year Minimum Year	5.5 4.9 11.7 1947 2.1 1956	5.6 5.5 11.6 1939 1.1 1968	6.1 5.9 11.2 1952 1.7 1937	4.9 4.6 9.3 1957 1.2 1942	4.2 3.9 9.6 1959 1.3 1941	4.8 4.6 9.0 1967 2.2 1944	5.8 5.5 12.0 1941 1.4 1957	5.5 4.4 16.0 1940 1.5 1956	4.1 4.2 7.8 1945 0.8 1940	3.7 3.4 9.9 1964 T 1963	4.1 3.7 14.3 1948 1.0 1939	5.0 4.8 11.6 1961 0.5 1965	59.3 57.6 77.7 1964 46.9 1941
Holston River	Cherokee Dam, Tenn.	3,428	Mean Median Maximum Year Minimum Year	3.9 3.1 8.4 1947 1.8 1940	3.9 3.7 7.8 1944 0.6 1968	4.4 4.1 9.0 1955 1.6 1937	3.6 3.5 5.6 1956 0.7 1942	3.8 3.4 8.0 1950 1.0 1941	3.8 4.0 6.1 1957 1.8 1936	5.2 5.0 8.2 1949 2.5 1957	4.0 3.7 7.8 1940 1.5 1953	2.9 2.8 5.9 1944 1.1 1940	2.5 2.4 7.1 1937 0.1 1963	3.0 2.8 6.1 1948 1.0 1939	3.4 3.3 7.1 1961 0.4 1965	44.4 45.5 55.8 1957 32.2 1941
North Fork Holston River	r Gate City, Va.	672	Mean Median Maximum Year Minimum Year	3.7 2.8 8.6 1957 1.9 1941	3.6 3.5 7.5 1944 0.5 1968	4.2 3.8 9.5 1955 1.4 1937	3.3 3.3 5.2 1968 0.4 1942	3.8 3.5 8.1 1950 0.8 1941	3.6 3.6 5.7 1957 1.7 1936	4.8 4.7 8.1 1966 2.5 1944	3.9 3.6 8.0 1940 1.1 1953	2.8 2.5 7.2 1957 0.9 1939	2.4 2.1 7.7 1937 T 1963	2.8 2.6 5.0 1948 0.7 1939	3·3 3.0 6.1 1969 0.4 1965	42.2 43.2 55.1 1957 32.1 1941

Stream Name	Subdivision Area Above	Drainage Area sq. mi.		Jan.	Feb.	Mean Mar.	Apr.	an, Max May	imum ar June	July	Aug.	Sept.	on in I	Nov.	Dec.	Annual
North Fork Holston	River Saltville, Va.	222	Mean Median Maximum Year Minimum Year	3.4 2.7 8.9 1957 1.7 1967	3.3 3.2 7.1 1944 0.4 1968	3.9 3.7 10.3 1955 1.5 1937	3.2 3.0 5.3 1959 0.5 1942	3.8 3.6 7.4 1950 0.5 1941	3.7 3.7 6.2 1953 1.5 1954	4.8 4.5 7.6 1941 2.8 1947	4.0 3.7 8.0 1947 1.9 1953	2.9 2.6 7.7 1957 0.8 1939	2.4 2.0 8.5 1937 T 1963	2.7 2.5 4.7 1963 0.7 1939	3.1 2.9 5.8 1961 0.4 1965	41.2 42.2 54.4 1957 32.3 1941
South Fork Holston	River Kingsport, Tenn.	1,932	Mean Median Maximum Year Minimum Year	3.9 3.2 8.2 1947 1.7 1940	3.8 3.8 7.7 1944 0.5 1968	4.3 4.2 9.0 1955 1.6 1937	3.6 3.4 5.7 1959 0.8 1942	3.9 3.5 7.8 1950 1.1 1941	3.9 4.1 6.7 1957 1.8 1964	5.4 5.3 8.4 1949 2.8 1957	4.2 3.8 8.3 1940 1.8 1953	3.1 3.1 6.1 1966 1.1 1939	2.6 2.4 7.6 1937 0.1 1963	3.0 2.9 5.6 1948 1.0 1939	3.3 3.3 7.3 1961 0.3 1965	45.0 45.8 57.3 1957 31.3 1941
South Fork Holston	River South Holston Dam, Tenn.	703	Mean Median Maximum Year Minimum Year	3.8 3.2 8.9 1957 1.7 1940	3.7 3.7 7.9 1944 0.4 1968	4.3 4.1 9.4 1955 1.6 1937	3.6 3.4 5.8 1959 0.7 1942	4.0 3.9 8.5 1950 1.0 1941	3.8 4.0 6.0 1957 1.7 1946	5.2 5.1 8.5 1949 2.6 1944	4.2 3.6 7.4 1940 1.8 1953	2.9 2.5 6.2 1944 0.9 1955	2.5 2.1 7.4 1937 0.1 1963	2.9 2.8 5.1 1948 0.9 1953	3.4 3.3 7.1 1961 0.3 1965	44.3 45.0 57.7 1957 31.1 1941
Watauga River	Watauga Dam, Tenn.	468	Mean Median Maximum Year Minimum Year	3.8 3.3 7.8 1937 1.6 1940	3.8 3.6 7.5 1944 0.6 1968	4.4 4.2 8.4 1955 1.7 1937	3.9 3.8 6.6 1957 1.0 1942	4.0 3.9 6.6 1950 1.3 1941	4.1 4.4 7.2 1957 1.9 1964	5.6 5.4 8.8 1935 2.7 1957	4.6 4.4 11.1 1940 1.6 1953	3.4 3.2 6.3 1957 1.0 1940	2.9 2.5 8.1 1937 0.1 1963	3.2 2.9 6.3 1948 1.0 1939	3.3 3.2 7.0 1961 0.3 1965	47.0 48.5 57.1 1957 32.0 1941
French Broad River	Douglas Dam, Tenn.	4,541	Mean Median Maximum Year Minimum Year	4.2 3.8 8.8 1954 1.9	4.3 4.2 7.8 1944 0.7 1968	5.0 4.7 9.9 1963 1.6 1937	4.0 4.1 6.9 1957 1.1 1942	3.8 3.6 6.8 1967 1.1 1941	4.3 4.1 7.4 1957 1.9 1964	5.5 5.6 9.4 1941 2.3 1957	4.8 4.2 12.0 1940 1.9	3.4 3.2 6.9 1957 0.8 1940	3.1 3.0 7.5 1964 0.1 1963	3.3 2.9 8.7 1948 1.1 1939	3.7 3.3 8.4 1961 0.4 1965	49.4 49.2 62.5 1957 35.9 1941
French Broad River	Newport, Tenn.	1,858	Mean Median Maximum Year Minimum Year	4.2 3.8 8.9 1936 1.8 1955	4.4 4.3 8.2 1939 0.7 1968	5.1 5.1 9.7 1963 1.5 1937	4.2 4.2 7.8 1957 1.2 1942	3.8 3.8 7.2 1942 1.2 1941	4.6 4.3 8.5 1957 2.2 1954	5.7 5.4 9.8 1941 2.1 1957	5.3 4.4 14.4 1940 2.2 1956	3.8 3.3 7.8 1957 0.8 1940	3.4 2.9 9.2 1964 0.1 1963	3.4 3.0 10.0 1948 1.0 1939	3.9 3.6 8.6 1961 0.3 1965	51.8 50.9 65.2 1964 37.8 1941
French Broad River	Asheville, N. C.	945	Mean Median Maximum Year Minimum Year	4.8 4.1 10.0 1936 1.5 1956	4.9 4.7 10.7 1939 0.8 1968	5.6 5.3 11.8 1952 1.5 1937	4.7 4.5 9.3 1957 1.2 1942	4.1 4.0 9.2 1942 1.4 1951	4.9 4.8 10.1 1957 2.2 1958	6.1 5.7 11.4 1949 2.5 1957	6.2 4.8 18.3 1940 2.4 1956	4.4 3.7 10.1 1959 0.6 1954	4.1 3.6 11.5 1964 0.1 1963	3.9 3.7 13.0 1948 1.1 1939	4.6 4.6 10.1 1961 0.4 1965	58.3 56.4 77.8 1964 43.7 1941
French Broad River	Bent Creek, N. C.	676	Mean Median Maximum Year Minimum Year	5.2 4.5 10.8 1937 1.6 1956	5.4 5.2 12.2 1939 0.8 1968	6.0 5.6 13.3 1952 1.6 1937	5.1 4.8 9.8 1957 1.2 1942	4.4 4.1 10.5 1942 1.4 1951	5.3 5.2 11.1 1957 2.2 1958	6.5 6.2 12.4 1949 2.2 1957	6.6 5.2 18.7 1940 2.1 1963	4.8 4.0 10.7 1957 0.5 1954	4.5 3.5 12.4 1964 0.1 1963	4.3 4.2 14.7 1948 1.2 1939	5.1 4.7 11.2 1961 0.5 1965	63.2 60.3 85.4 1964 47.1 1941
French Broad River	Blantyre, N. C.	296	Mean Median Maximum Year Minimum Year	6.3 5.8 12.6 1937 1.8 1956	6.4 6.4 14.8 1939 1.1 1968	7.0 6.5 16.0 1952 2.0 1937	6.0 5.8 11.7 1964 1.2 1942	5.1 5.0 12.7 1959 1.2 1936	6.1 6.0 14.0 1957 2.1 1954	7·3 6.7 14·5 1949 2.1 1957	7.5 5.8 20.3 1940 2.2 1963	5.4 4.9 12.5 1957 0.6 1954	5.1 3.9 14.4 1964 0.2 1963	5.2 5.0 18.0 1948 1.3 1939	6.2 6.0 14.0 1961 0.9 1965	73.6 71.2 102.8 1964 52.8 1941
Little Pigeon Rive	r Sevierville, Tenn.	353	Mean Median Maximum Year Minimum Year	4.8 4.3 11.8 1954 2.1 1958	4.9 9.3 1957 1.0 1968	5.4 5.2 10.3 1963 1.8 1937	4.2 4.3 6.6 1958 1.7 1942	4.1 4.0 6.8 1967 0.9 1941	5.0 4.8 9.2 1957 2.0 1936	6.5 6.4 10.6 1938 2.5 1957	5.1 4.4 10.0 1942 1.7 1962	3.4 3.2 7.8 1944 1.2 1939	3.0 3.0 7.1 1959 T 1963	3.7 3.3 8.5 1948 0.9 1937	4.1 3.6 9.3 1961 0.4 1965	54.2 54.9 71.7 1957 41.9 1941
Nolichucky River	Morristown, Tenn.	1,679	Mean Median Maximum Year Minimum Year	4.1 3.6 8.5 1947 1.7 1940	4.2 4.2 7.6 1944 0.6 1968	4.8 4.4 9.8 1935 1.6 1937	3.8 3.8 6.1 1959 1.1 1942	3.7 3.4 7.4 1967 1.0 1941	1.6	5.4 5.5 8.9 1941 2.4 1957	4.3 3.9 10.6 1940 1.4 1951	3.3 3.0 6.7 1944 0.6 1940	2.8 2.5 6.4 1964 0.1 1963	3.2 3.0 7.1 1948 1.1 1939	3.5 3.3 7.8 1961 0.4 1965	47.1 46.5 60.0 1957 33.8 1941
Nolichucky River	Embreeville, Tenn.	805	Mean Median Maximum Year Minimum Year	4.2 3.8 9.0 1936 1.9 1940	4.3 4.2 8.2 1957 0.5 1968	5.0 4.8 10.2 1963 1.5 1937	4.1 4.2 7.6 1957 1.4 1942	4.0 3.9 6.9 1967 1.2 1941	1.8	5.6 5.5 9.9 1941 2.8 1957	4.9 4.5 14.8 1940 1.2 1951	3.7 3.2 7.5 1957 0.7 1940	3.2 3.1 7.3 1964 0.1 1963	3.4 3.0 7.7 1948 1.1 1939	3.7 3.4 7.7 1961 0.4 1965	50.3 50.5 66.4 1957 36.2 1941
Pigeon River	Hartford, Tenn.	547	Mean Median Maximum Year Minimum Year	4.7 4.2 10.2 1947 1.8 1955	4.7 4.5 9.0 1944 0.8 1968	5.5 5.2 11.2 1963 1.8 1937	4.2 4.0 8.0 1957 1.4 1942	3.8 3.6 7.4 1959 1.1 1941	2.1	5.8 5.6 9.9 1941 2.1 1957	5.0 4.4 13.7 1940 2.2 1953	3.5 3.2 7.1 1959 0.7 1939	3.2 3.0 7.9 1964 0.1 1963	3.5 3.2 10.2 1948 1.2 1939	4.0 3.8 9.6 1961 0.5 1965	52.2 52.3 67.1 1957 38.1 1941

SELECTED WATERSHED SUBDIVISIONS IN THE TENNESSEE RIVER BASIN 1935-1969

	Subdivision Area Drainage Mean, Median, Maximum and Minimum Precipitation in Inches															
Stream Name	Above	Area sq. mi.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Pigeon River	Canton, N. C.	133	Mean Median Maximum Year Minimum Year	5.2 4.4 11.0 1947 1.6 1955	5.1 4.9 10.9 1939 0.7 1968	5.9 5.6 11.1 1952 1.6 1937	4.7 4.4 11.0 1957 1.4 1942	4.1 3.8 11.8 1959 1.2 1941	4.6 4.3 10.4 1949 1.4 1958	5.6 5.2 10.4 1941 2.0 1957	5.6 4.4 21.4 1940 1.9	4.5 3.8 12.8 1950 0.4 1940	4.1 3.2 10.1 1964 0.1 1963	4.0 3.4 14.6 1948 1.0 1939	4.6 5.0 10.5 1961 0.5 1965	58.0 56.7 82.3 1957 40.2 1941
Beech River	Beech Lake Dam, Tenn.	15.74	Mean Median Maximum Year Minimum Year	4.5 3.3 11.6 1954 1.1 1963	5.0 5.2 10.1 1956 1.2 1968	5.0 4.3 9.2 1963 1.7 1969	5.0 4.3 7.7 1964 2.4 1960	4.5 3.7 10.8 1967 2.1 1969	3.6 3.5 6.5 1962 1.5 1967	4.0 3.2 7.6 1967 1.5 1962	2.9 2.3 9.8 1964 0.6 1968	3.3 2.6 6.6 1958 0.2 1956	2.2 2.3 4.4 1967 0.0 1963	3.8 3.2 10.6 1957 1.3 1962	4.4 4.2 8.6 1964 0.6 1958	48.2 48.0 66.9 1957 34.2 1960
Beech River	Pin Oak Lake Dam, Tenn.	11.52	Mean Median Maximum Year Minimum Year	4.6 3.4 11.5 1957 1.2 1963	5.1 5.0 10.6 1956 1.3 1968	5.0 4.7 8.8 1955 1.9 1969	5.0 4.8 8.0 1955 2.5 1960	4.5 3.4 10.6 1967 2.2 1969	3.3 3.1 5.8 1962 1.2 1967	3.6 3.2 7.2 1967 1.1 1956	2.9 2.8 8.6 1964 0.3 1953	2.9 1.9 6.0 1964 0.5 1961	2.0 1.9 3.3 1966 0.0 1963	3.7 3.2 9.2 1957 1.4 1954	4.2 4.2 8.3 1964 0.6 1958	46.8 46.7 65.4 1957 35.4 1960
Beech River	Pine Lake Dam, Tenn.	7.60	Mean Median Maximum Year Minimum Year	4.8 3.8 12.4 1954 1.5 1963	5.6 5.5 10.9 1956 1.5 1968	5.3 4.6 9.0 1965 2.4 1966	5.5 5.9 9.5 1964 2.8 1960	4.9 4.1 11.5 1967 2.3 1969	3.3 3.0 7.4 1959 1.0 1953	3.9 4.0 7.0 1964 1.1 1968	3.4 2.9 8.2 1964 0.4 1953	3.3 3.2 6.6 1957 0.6 1956	2.1 2.1 4.4 1959 0.0 1963	4.1 3.6 9.8 1957 1.3 1962	4.7 4.5 9.5 1964 0.5 1958	50.9 49.4 71.5 1957 39.0 1963
Beech River	Dogwood Lake Dam, Tenn.	5.04	Mean Median Maximum Year Minimum Year	4.6 3.4 11.5 1957 1.2 1963	5.1 5.1 10.7 1956 1.3 1968	5.1 4.8 9.0 1955 1.8 1969	5.1 4.7 8.3 1955 2.6 1960	4.5 3.5 10.7 1967 2.1 1969	3.4 3.2 5.8 1957 1.4 1967	3.5 3.1 7.2 1967 1.2 1956	3.1 3.1 8.1 1964 0.2 1953	3.0 2.0 6.5 1964 0.5 1956	2.0 1.9 3.4 1966 0.0 1963	3.7 3.2 9.3 1957 1.4 1962	4.3 8.7 1964 0.7 1958	47.4 47.4 66.1 1957 36.5 1963
Beech River	Cedar Lake Dam, Tenn,	4.37	Mean Median Maximum Year Minimum Year	1957	5.1 5.3 10.4 1956 1.1 1968	5.0 4.4 8.5 1955 1.9 1966	5.1 5.5 7.5 1955 2.5 1960	4.5 3.6 10.5 1967 2.3 1959	3.4 3.2 6.5 1957 1.4 1954	3.8 3.6 7.2 1964 1.3 1968	2.9 2.4 9.5 1964 0.8 1958	3.1 2.8 6.3 1958 0.6 1961	2.1 2.0 3.4 1967 0.0 1963	3.8 3.2 10.1 1957 1.3 1962	4.3 8.7 1964 0.6 1958	47.6 46.5 68.5 1957 35.4 1960
Beech River	Lost Creek Dam, Tenn.	4.29	Mean Median Maximum Year Minimum Year	1954	5.1 5.4 10.5 1956 1.2 1968	4.8 4.8 8.0 1965 1.9 1966	5.2 4.7 10.4 1964 2.6 1960	4.7 3.9 10.6 1967 2.4 1969	3.1 3.1 6.3 1957 0.9 1954	4.0 3.5 8.2 1964 1.0 1956	2.8 2.8 5.8 1969 0.2 1953	3.0 2.7 6.0 1957 0.1 1956	1.9 1.6 5.5 1959 0.0 1963	3.8 3.5 10.4 1957 1.2 1962	4.6 4.2 9.7 1964 0.5 1958	47.7 47.2 68.4 1957 39.3 1963
Beech River	Sycamore Lake Dam, Tenn.	2.80	Mean Median Maximum Year Minimum Year	1954	5.2 5.4 10.5 1956 1.2 1968	4.9 4.8 8.3 1965 2.0 1966	5.3 5.0 9.9 1964 2.6 1960	4.7 3.9 11.0 1967 2.3 1969	6.1 1959 1.0	4.0 3.5 7.7 1964 1.1 1956	3.1 3.2 6.2 1964 0.2 1953	3.0 2.8 6.0 1957 0.3 1956	2.0 1.9 5.1 1959 0.0 1963	3.9 3.4 9.9 1957 1.2 1962	4.6 4.2 9.4 1964 0.5 1958	48.5 48.2 68.7 1957 38.7 1963
Beech River	Red Bud Lake Dam, Tenn.	2.77	Mean Median Maximum Year Minimum Year	1954	5.1 5.0 10.9 1956 1.3 1968	5.0 4.7 8.6 1955 1.9 1966	5.0 4.8 8.2 1955 2.6 1960	4.5 3.5 10.2 1967 2.2 1969	5.6 1962 1.3	3.7 3.4 7.2 1967 1.4 1956	2.9 2.7 7.7 1964 0.2 1953	2.9 2.0 6.3 1964 0.5 1961	2.0 1.9 3.4 1966 0.0 1963	3.7 3.2 9.2 1957 1.4 1954	4.2 4.2 7.9 1964 0.6 1958	47.0 47.5 64.5 1957 36.1 1960

Data for Beech River are for the 17-year period 1953-1969.



